

ARCHITECTS MANUAL OF STANLEY HARDWARE



	A. I. A.
BUTTS	No. 27B1
BOLTS	No. 27B3
BLIND HARDWARE	No. 27A5
GARAGE HARDWARE	No. 27C6

(This Manual replaces the Stanley Detail Manual issued in 1922)

This Manual

has been prepared by The Stanley Works
in an endeavor to simplify the work of
the Architect in selecting and specifying

Stanley Hardware

Issued 1926

STANLEY

Wrought Bronze, Brass and Steel

ERRATA

Please note the following corrections in the page numbers as given in the last paragraph, referring to corresponding butts, on the following pages:—

See page 12	should be No.	BB199	Page 39
" " 13	" " No.	BB193	" 40
" " 14	" " No.	BB95	" 41
" " 15	" " No.	BB198	" 42
" " 16	" " No.	194	" 43
" " 17	" " No.	196½	" 44
" " 22	" " No.	BB168	" 46
" " 23	" " No.	BB174	" 47
" " 24	" " No.	BB141	" 48
" " 25	" " No.	BB197	" 49
" " 27	" " No.	BB179	" 50
" " 28	" " No.	BB140	" 51
" " 29	" " No.	BB145	" 52
" " 30	" " No.	BB146	" 53
" " 31	" " No.	BB144	" 54
" " 33	" " No.	176 or 178	" 55
" " 55	" " No.	291½ or 291	" 33
" " 59	" " No.	BB165	" 60
" " 60	" " No.	BB172 or BB173	" 58 or 59

The STANLEY WORKS

New Britain, Conn., U. S. A.

New York Chicago San Francisco

Los Angeles Seattle

STANLEY

*Wrought Bronze, Brass
and Steel*

BUTTS



The STANLEY WORKS

New Britain, Conn., U. S. A.

New York Chicago San Francisco

Los Angeles Seattle

12 13-810 70 602716 BU 115 Standard C

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Butts for Wood Doors with Wood Jambs

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The Relative Wearing Value of Ball-Bearing and Steel-Bushed Bronze Butts

By *I. J. Fairchild*

Mechanical Engineer, Bureau of Standards

THE Bureau of Standards of the Department of Commerce, Washington, D. C., reports a series of tests undertaken for the Builders' Hardware Committee of the Federal Specifications Board for the purpose of determining the relative wearing value of various types of butts.

Each butt was mounted singly and loaded axially in order to fix definitely the wear due to the vertical component of the load imposed by a door in actual use, since the vertical component is greater than the horizontal component, and is a major cause of unsatisfactory service.

It is admitted that the wear on the pin is frequently serious, but it was felt that a test using one component of the load could be more accurately analyzed, and though restricted, would be of greater value than one where both components were used, or where more than one hinge was mounted on a door element.

Each hinge was inspected carefully before the test, and the amount of vertical wear was measured daily by means of a thickness gauge. The test on each hinge was continued to 1,000,000 cycles, or until the vertical clearance between a stationary knuckle and the adjacent movable knuckle below it amounted to 0.04 in. — a clearance which in actual service would usually cause serious binding of the door, or would require resetting the hinges. The hinges were mounted and run without lubrication other than that supplied with the hinges, since this appears to be the usual condition in actual service.

Since the only definite rules published for determining the proper butt for a given door recommend a nominal size of butt without regard to weight for a given size and weight of door, various weights of the same size of butts were all tested under the same load. The rules referred to recommend three 5-in. 5-in. butts to each door leaf, weighing 75 to 100 lb. Since frequently the entire vertical component of the door due to weight is carried by one butt until sufficient wear has permitted the second and sometimes the third butt to come into bearing, each butt was given a load equal to the maximum weight of door plus a liberal overload to accelerate the test. A superimposed load of 100 lb., with the weight of necessary parts of 100 lb., brought the total load on each butt to

184 lb., which is equivalent to 84 per cent over the maximum load the butt had been designed to carry.

A total of nineteen hinges, the product of five different manufacturers, were tested, some of which were purchased on the open market, and some furnished by the makers. The moving leaf of the hinge was driven through an angle of 60 deg., at the rate of about thirty-six complete cycles per minute.

Most of the bearings were dry of lubricant at the conclusion of the run of 1,000,000 cycles in a period of approximately three weeks. However, those of similar type and weight which exhibited the least wear were the ones most efficiently lubricated.

The accompanying table, No. 1, showing the estimated frequency of operation of various classes of doors, is intended only to convey an idea of relative magnitude of the

Table 1
ESTIMATED FREQUENCY OF OPERATION OF HINGED
DOORS

Type of Building and Door	Number of operations of one leaf of door — opening and closing = 1 cycle.	
	Daily	Yearly
Large department store entrance.....	5,000	1,500,000
Large office building entrance.....	4,000	1,200,000
Theater entrance.....	*1,000	450,000
Schoolhouse entrance.....	1,250	225,000
Schoolhouse toilet door.....	1,250	225,000
Store or bank entrance.....	500	150,000
Office building toilet door.....	200	59,000
Schoolhouse corridor door.....	80	15,000
Office building corridor door.....	75	22,000
Store toilet door.....	60	18,000
Dwelling house entrance.....	40	15,000
Dwelling house toilet door.....	25	9,000
Dwelling house corridor door.....	10	3,600
Dwelling house closet door.....	6	2,200

*Per performance.

Note — The ratio between daily and yearly frequency varies with the type of building.

values for frequency of operation, to assist the architect, hardware man, or user in determining the proper type of butt for a given service. It is also calculated to draw the attention of the architect, dealer and user to the wide variation in frequency of operation of butts demanded in different types of buildings.

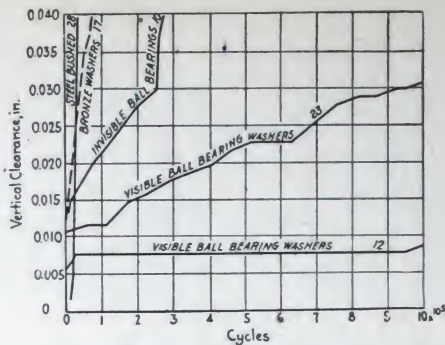


Fig. 2—Test on 5 x 6 ball-bearing and steel bushed hinges.
Load = 184 lbs.

The estimated life of buildings varies according to construction, climate, etc., from twenty to seventy-five years. It seems reasonable to suppose that butts properly selected with regard to the service, properly mounted and lubricated, should need no replacement during the life of the usual building.

The curves, Fig. No. 2, and table No. 2, obtained from the test, show a great variation in the wear of the various butts, and although the scope of the tests was small, and no definite relation can be shown between actual life and life as indicated by the tests, the results support conclusions drawn from previous tests on steel-bushed butts, and were sufficiently consistent to warrant the following conclusions:

(a) Steel-bushed or steel-washed bronze

or brass butts as now produced are relatively poor from the standpoint of wear, and are not recommended for use except on doors used moderately where extreme climatic or corrosive conditions require bronze or brass butts.

(b) In general, where conditions warrant the use of bronze or brass butts, the ball-bearing type should be specified, especially for frequencies estimated to be greater than 15,000 cycles per year, since the service they give outweighs the differential in cost over the other types tested.

(c) Ball-bearing washers of the visible type are preferable to the concealed type of ball bearings as now made.

(d) Extra heavy ball-bearing butts should be specified for all doors where exceptional frequency of operation may be expected.

(e) Ball-bearing butts should be specified where silent operation of doors is required as in hospitals.

(f) There is little difference between the wearing qualities of steel butts with visible bronze washers and steel-bushed bronze butts, but both types are decidedly inferior to ball-bearing butts.

(g) While compared to the other types tested, ball-bearing butts will give greater service, regardless of lubrication, nevertheless, lubrication is an important feature in all types of butts and should be provided not only as an essential part of the manufacturing process, but also throughout the life of the butt by systematic inspection.

Note—Published by permission of the director of the Bureau of Standards of the U. S. Department of Commerce.

Table 2
TYPES AND PERFORMANCE OF BUTTS TESTED

Hinge No.	Type	Kind of Metal	Actual Weight Per Pair Without Screws (Lb.)	Metal Thickness (Outer Edge of Leaf) (In.)	Clearance at Start (In.)	Clearance at End (In.)	Cycles Run
10	2 Invisible B. Brgs.	Cast Bronze	4.25	.205	.012	.094	375,400
11	2 Visible B. Brgs.	Wrought Steel	2.69	.142	.008	.025	1,007,200
12	2 Visible B. Brgs.	Wrought Bronze	4.00	.185	.006	.009	1,007,200*
13	2 Invisible B. Brgs.	Cast Bronze	5.00	.288	.0015	.010	1,007,200
14	2 Visible B. Brgs.	Wrought Steel	2.81	.142	.010	.018	1,007,200*
15	2 Visible B. Brgs.	Wrought Bronze	3.00	.148	.005	.035	1,007,200
16	2 Invisible B. Brgs.	Cast Bronze	4.00	.187	.024	.053	257,700
17	2 Bronze Washers	Wrought Steel	2.75	.145	.012	.046	88,700
18	2 Visible B. Brgs.	Wrought Steel	2.75	.148	.013	.023	1,038,000
19	2 Visible B. Brgs.	Wrought Steel	2.69	.147	.008	.042	524,000*
20	2 Visible B. Brgs.	Wrought Bronze	4.00	.185	.003	.004	1,005,000
21	2 Invisible B. Brgs.	Cast Bronze	5.00	.288	.0015	.006	1,005,000
22	2 Visible B. Brgs.	Wrought Bronze	3.00	.145	.010	.054	1,005,000
23	2 Visible B. Brgs.	Wrought Bronze	3.00	.146	.011	.031	1,005,000
24	2 Visible B. Brgs.	Wrought Bronze	3.00	.145	.006	.043	281,000*
25	2 Bronze Washers	Wrought Steel	2.75	.145	.007	.061	108,000
26	4 Visible B. Brgs.	Wrought Steel	3.56	.186	.008	.0395	1,007,448*
27	Steel Bushed	Cast Brass	2.88	.127	.001	.062	79,742
28	Steel Bushed	Cast Brass	2.88	.126	.001	.080	79,742

*Retaining jacket split.

The Correct Specifications for Butts for Wood Doors, Hollow Metal Doors, Kalamein, or Metal Covered Doors.

Two butts should be used for doors measuring 5' or less in height. Doors of a greater height require one butt for each 2½' or fraction thereof in height.

Extra heavy butts should always be used on doors where High Frequency Service is expected.

In using the table, whenever the door is of such a size as to call for butts of regular weight, it is of such a character as to come into the High Frequency classification, then extra heavy butts of the same length and width are to be substituted.

Butt sizes given refer to length of joint.

DOOR DIMENSIONS	SIZE OF BUTTS	* TEMPLATE SYMBOL FOR USE WITH METAL DOORS
0' and 7½' Cupboard Doors (Wood) up to 24" wide	2½"	
0' and 1½' Screen Doors (Wood) up to 36" wide	3"	
0' Doors (Wood) up to 36" wide	3½"	
0' Doors (Steel) up to 36" wide	4½"	4½" A2
0' and 1½' Doors (Wood) up to 32" wide	3½"	
over 32" to 37" wide	4"	
0' and 1½' Doors (Steel) up to 32" wide	4½"	4½" A2
over 32" to 37" wide	5"	5" A2
0', 1½' and 1½' Doors (Steel or Wood) up to 32" wide	4½"	4½" A
over 32" to 37" wide	5"	5" A
over 37" to 43" wide	5" extra heavy	5" B
over 43" to 50" wide	6" extra heavy	6" B
2½' and 2½' Doors (Steel or Wood) up to 37" wide	5"	5" A
over 37" to 43" wide	5" extra heavy	5" B
over 43" to 50" wide	6" extra heavy	6" B

0' designates regular weight butts.

1' designates extra heavy butts.

A2 designates regular weight butts of narrow widths.

B2 designates extra heavy butts of narrow widths.

Expected Frequency of Operation of Doors

[Number of operations of one leaf of door, opening and closing = 1 cycle]

Type of building and door	Expected frequency	
	Daily	Yearly
Large department store entrance	5,000	1,500,000
Large office building entrance	4,000	1,200,000
Cater entrance	*1,000	450,000
Woolhouse entrance	1,250	225,000
Woolhouse toilet door	1,250	225,000
Store or bank entrance	500	150,000
Office building toilet door	400	118,000
Woolhouse corridor door	80	15,000
Office building corridor door	75	22,000
Store toilet door	60	18,000
Selling house entrance	40	15,000
Selling house toilet door	25	9,000
Selling house corridor door	10	3,600
Selling house closet door	5	2,200

High frequency

Performance

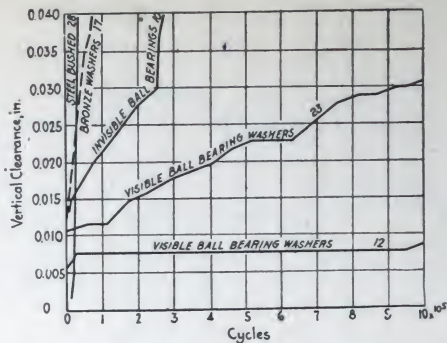


Fig. 2—Test on 5 x 5 ball-bearing and steel bushed hinges.
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(a) Steel-bushed or steel-washer bronze

or brass butts as now produced are relatively poor from the standpoint of wear, and are not recommended for use except on doors used moderately where extreme climatic or corrosive conditions require bronze or brass butts.

(b) In general, where conditions warrant the use of bronze or brass butts, the ball-bearing type should be specified, especially for frequencies estimated to be greater than 15,000 cycles per year, since the service they give outweighs the differential in cost over the other types tested.

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27	Steel Bushed	Cast Brass	2.88	.127	.001	.062	79,742
28	Steel Bushed	Cast Brass	2.88	.126	.001	.080	79,742

*Retaining jacket split.

The Correct Specifications for Butts for Wood Doors, Hollow Metal Doors, Kalamein, or Metal Covered Doors.

Two butts should be used for doors measuring 5' or less in height. Doors of a greater height require one butt for each 2½' or fraction thereof in height.

Extra heavy butts should always be used on doors where High Frequency Service is expected.

In using the table, whenever the door is of such a size as to call for butts of regular weight, it is of such a character as to come into the High Frequency classification, then extra heavy butts of the same length and width are to be substituted.

Butt sizes given refer to length of joint.

DOOR DIMENSIONS	SIZE OF BUTTS	* TEMPLATE SYMBOL FOR USE WITH METAL DOORS	
¾" and 7/8" Cupboard Doors (Wood) up to 24" wide....	2½"		
¾" and 1⅛" Screen Doors (Wood) up to 36" wide.....	3"		
¾" Doors (Wood) up to 36" wide.....	3½"		
¾" Doors (Steel) up to 36" wide.....	4½"	4½" A2	
¾" and 1⅜" Doors (Wood) up to 32" wide.....	3½"		
over 32" to 37" wide.....	4"		
¾" and 1⅜" Doors (Steel) up to 32" wide.....	4½"	4½" A2	
over 32" to 37" wide.....	5"	5" A2	
¾", 1¾" and 1⅞" Doors (Steel or Wood) up to 32" wide	4½"	4½" A	
over 32" to 37" wide.....	5"	5" A	
over 37" to 43" wide.....	5" extra heavy.....	5" B	
over 43" to 50" wide.....	6" extra heavy.....	6" B	
2¼" and 2½" Doors (Steel or Wood) up to 37" wide	5"	5" A	
over 37" to 43" wide.....	5" extra heavy.....	5" B	
over 43" to 50" wide.....	6" extra heavy.....	6" B	

A designates regular weight butts.

B designates extra heavy butts.

A2 designates regular weight butts of narrow widths.

B2 designates extra heavy butts of narrow widths.

Expected Frequency of Operation of Doors

[Number of operations of one leaf of door, opening and closing = 1 cycle]

Type of building and door	Expected frequency		
	Daily	Yearly	
Large department store entrance.....	5,000	1,500,000	} High frequency
Large office building entrance.....	4,000	1,200,000	
Theater entrance.....	*1,000	450,000	
Schoolhouse entrance.....	1,250	225,000	
Schoolhouse toilet door.....	1,250	225,000	
Store or bank entrance.....	500	150,000	
Office building toilet door.....	400	118,000	
Schoolhouse corridor door.....	80	15,000	
Office building corridor door.....	75	22,000	
Store toilet door.....	60	18,000	
Dwelling house entrance.....	40	15,000	
Dwelling house toilet door.....	25	9,000	
Dwelling house corridor door.....	10	3,600	
Dwelling house closet door.....	6	2,200	

Performance.

Clearance of Regular Stock Size Butts for Wood Doors

The clearance is estimated on butts set back $\frac{1}{4}$ " from back edge of door, for doors $1\frac{3}{8}$ ", $1\frac{3}{4}$ ", 2", and $2\frac{1}{4}$ " in thickness and $\frac{3}{8}$ " for doors $2\frac{1}{2}$ " and 3" in thickness.

THICKNESS OF DOOR	SIZE OF BUTT	MAXIMUM CLEARANCE	THICKNESS OF DOOR	SIZE OF BUTT	MAXIMUM CLEARANCE
$1\frac{3}{8}$ "	$3\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{4}$ "	$2\frac{1}{4}$ "	5 x 5	1"
	4 x 4	$1\frac{3}{4}$ "		6 x 6	2"
$1\frac{3}{4}$ "	4 x 4	1"		6 x 8	4"
	$4\frac{1}{2} \times 4\frac{1}{2}$	$1\frac{1}{2}$ "	$2\frac{1}{2}$ "	5 x 5	$\frac{3}{4}$ "
	5 x 5	2"		6 x 6	$1\frac{3}{4}$ "
2"	$4\frac{1}{2} \times 4\frac{1}{2}$	1"		6 x 8	$3\frac{3}{4}$ "
	5 x 5	$1\frac{1}{2}$ "	3"	8 x 6	$\frac{3}{4}$ "
	6 x 6	$2\frac{1}{2}$ "		8 x 8	$2\frac{3}{4}$ "
				8 x 10	$4\frac{3}{4}$ "

Rules for Hands of Loose Joint Butts



Outside
(A)
Left Hand Door
Takes
Left Hand Butts



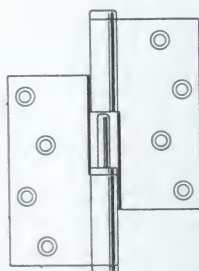
Outside
(A)
Right Hand Door
Takes
Right Hand Butts



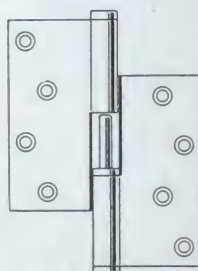
Outside
(B)
Left Hand Reverse Door
Takes
Right Hand Butts



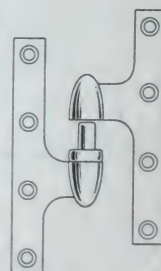
Outside
(B)
Right Hand Reverse Door
Takes
Left Hand Butts



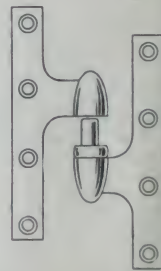
Left Hand
Loose Joint Butt



Right Hand
Loose Joint Butt



Left Hand Paumelle



Right Hand Paumelle

The hand of a butt is determined from the outside of the door to which it is applied. The outside of a cupboard, bookcase or closet door is the room side. For other doors the outside is usually the "push" or jamb side.

A. If, standing outside of a door which opens *from* you the butts are on the right it takes right-hand butts; if on the left, it takes left-hand butts.

B. If, standing outside of a door which opens *toward* you, the butts are on the right it takes left-hand butts; if on the left, it takes right-hand butts.

Reversed doors are doors opening out.

Simplified Method of Determining Hands of Loose Joint Butts



Left Hand Butt



Right Hand Butt



Left Hand Paumelle



Right Hand Paumelle

To determine immediately the hand of a loose joint butt, hold the butt with the barrel toward you. The direction in which the groove extends determines the hand of the butt.

In ordering Butts that are not reversible, the Hand of the Butt must always be specified.

Tips and Pins for Stanley Butts

Stanley butts can be furnished with either ball tips or button tips. The ball tips are regularly furnished on all plated butts but button tips may be had if desired.



Ball Tip

Illustration shows the regular Stanley Ball Tip, also, construction of the tip and pin which are made of one piece of steel.

The Stanley non-rising feature consists of wings on the pin which fit into corresponding grooves in the barrel of the butt. The pin can be easily removed but is non-rising under action of the door.

The button tip is furnished on all butts designed for painting, unless the ball tip is specified. Furnished on other butts when desired. The tip and pin are made of one piece of steel. Pin has the Stanley non-rising feature described above.



Button Tip

Stanley Sherardizing

Stanley Sherardizing consists of subjecting steel hardware to a high temperature while in contact with powdered zinc. The smooth unbroken zinc coating thus formed, binds itself very firmly to the hardware and even penetrates the steel becoming part of it.

This zinc coating protects the steel and serves as an enduring base for the application of any electroplated or japanned finish.

Stanley Sherardizing is the most suitable protective coating for steel hardware as it covers irregular shapes with an even thickness of zinc. The inside of the barrel of a Butt needs this protection, as electroplating will not penetrate recesses, these parts do not receive the same amount of protection as the flat surfaces.

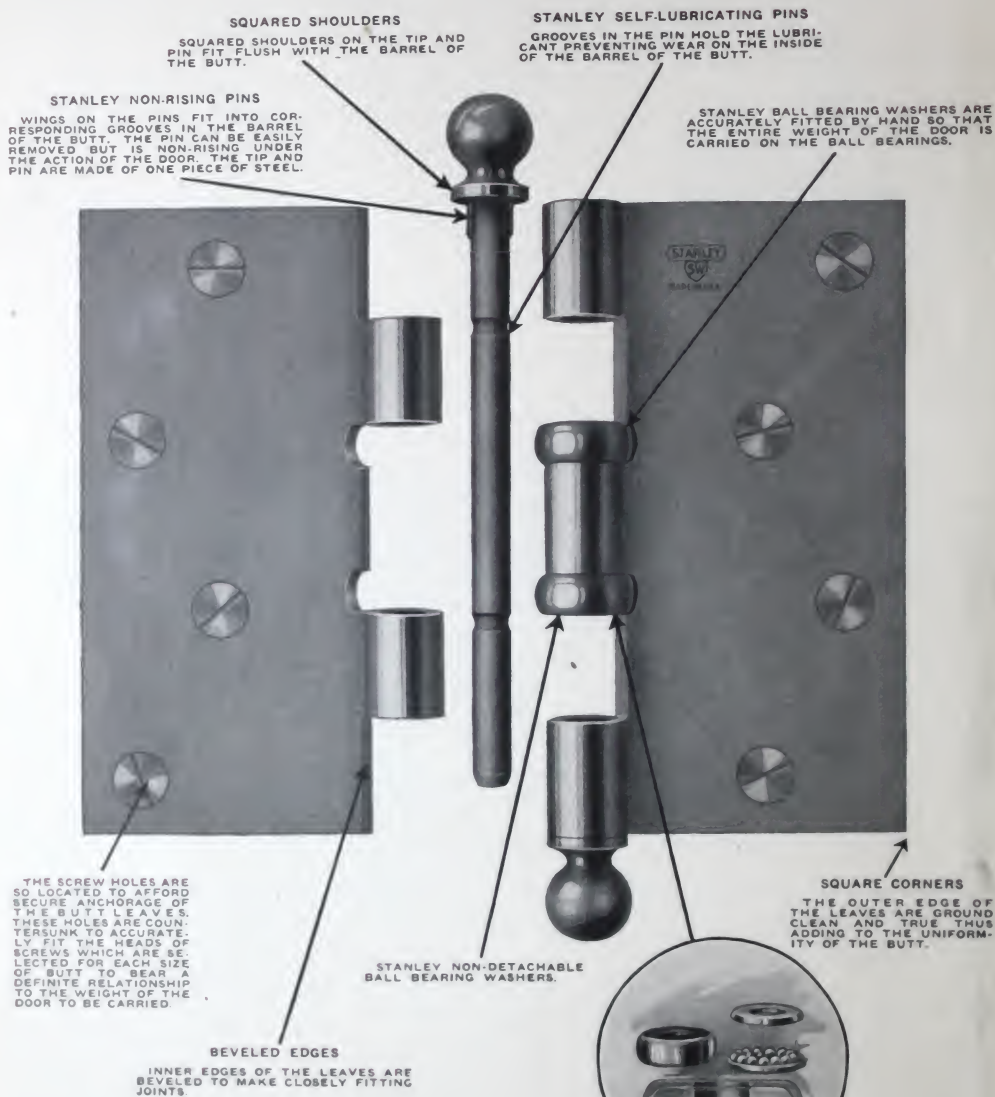
Stanley Sherardizing gives this protection throughout.

How to order Stanley Sherardized Finish

When ordering, if the butts are wanted in the Sherardized finish only insert the letter "Z" after the class number, i. e. BB235Z. If desired Sherardized and Plated, insert the letter "Z" before the class number and suffix the finish symbol; i. e. BBZ239A.

This applies to all Stanley Sherardized Products.

Nine Superior Features of High Grade Ball Bearing Butts Originated by Stanley



STANLEY BALL BEARING WASHERS

THIS IS THE MOST HIGHLY DEVELOPED TYPE OF BEARING THAT CAN BE APPLIED TO THE JOINTS OF BUTTS. IT CONSISTS OF CASE HARDENED STEEL RACEWAYS, ACCURATELY MADE, CONTAINING HARDENED TOOL STEEL BALLS OF THE HIGHEST GRADE.

THE RACEWAYS AND STEEL BALLS ARE ENTIRELY ENCLOSED, AND PROTECTED, BY A RUST-PROOF CASE, EXCLUDING DUST AND MOISTURE, AND KEEPING IN PLACE A VERY LIBERAL SUPPLY OF LUBRICANT WHICH IS AP-

PLIED TO THE BEARINGS IN ASSEMBLING.

THE BALL BEARING WASHERS ARE PERMANENTLY ATTACHED TO ONE KNUCKLE OF THE BUTT, AND ARE THUS HELD IN PLACE WHEN THE BUTTS ARE TAKEN APART. THIS NON-DETACHABLE FEATURE, ORIGINATED BY THE STANLEY WORKS, IS AN IMPORTANT ADVANCE IN BUTT CONSTRUCTION.

Stanley Finish Symbols

With

Comparative Finish Symbols

of

United States Standard and Builders Hardware Manufacturers

The Stanley Works	United States Standard	General Description	Barrows Lock Works	P. & F. Corbin	The Lockwood Mfg. Co.	Norwalk Lock Co.	Penn Hardware Company	Reading Hardware Company	Russell & Erwin Mfg. Company	Sager Lock Works	Sargent & Company	The Yale & Towne Mfg. Company
A	US9	Bright bronze.....	A20	B	1	1	PBZ	1	11	A20	P	BZ10
A4	US11	Dull bronze, oxidized and relieved.....	D21	HB	23	DB3	DBZR	221	11C	D21	O6P	BY21
A5	US10	Dull bronze.....	D20	DB	34	DB	DBZ	7	11D	D20	OP	BY22
B	US20	Statuary bronze.....	D29	KB	38	2	PBZ4	2	2	D29	A	BY25
B1	US20A	Statuary bronze, dark...	DD29	LB	2	2D	BBZ6	2	2D	DD29	A3B	BY65
C	US3	Bright brass.....	A30	A	13½	1B	PB	31	10	A30	B	AZ10
D2	US8	Antique copper.....	A42	R	7½	O	AC	24	7½	A42	AB	CZ27
E4	US23	Silver plated, dull oxidized and relieved.....	D61	KS	72	S3	DSR	42	8C	D61	LS	SY52
F	US4	Dull brass.....	D30	EA	13	K	DB	37	9	D30	OB	AY22
F4*	US5	Dull brass, oxidized and relieved.....	D31	KA	43	K3	DBR	371	9C	D31	OE	AY21
G	US18	"Rustproof" black. (Genuine Bower Barff)	17	F	31	RI	RP	87	46	17	BB	FX80
I	US19	Sanded, dull black.....	18	KF	6	HW	IRP	87½	47	18	BN	{ BX80 (Bze) FX90 (Steel)
J	US1B	Bright japanned.....	010	J	J	J	J	.....	010	.....	.....	.....
J1	US1D	Dead black japanned.....	OD10	D	JF	.....	DJ	.....	OD10	J	.....	.....
N	US14	Nickel plated.....	A50	E	5	NP	PN	80	4	A50	N	NZ10
N5	US15	Nickel plated, dull.....	D50	DE	90	DN	DN	77	14	D50	LN	NY10
NM	US25	White bronze.....	Nick-elene	NK	95	NM	Nick-elene	44	Nick-elene	EM	.....	NZ40
	.....	Priming coat for painting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	US2H	Hot galvanized.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
LA4	US12	Sanded bronze, oxidized and relieved.....	S21	SHB	36½	.....	BZS7L	223	011C	S21	RP	BX12
B	US21	Statuary bronze, sanded....	S29	SKB	38S	H2	BZS4L	2½	02	S29	RA	BX25
F4	US6	Sanded brass, oxidized and relieved.....	S31	SKA	51	HK3	BS7L	33	09C	S31	RD	AX28
N	US16	Nickel plated, sanded.....	S51	SE	5S	.....	NS	78	.....	S51	RN	NX10
	US22	Verde antique.....	S81	V	85	VA	V	94	36	S81	VA	BX67
	.....	Old iron.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	US2S	Stanley Sherardized.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

The above list of finishes represents a fair comparison of the different manufacturers. When exact finish is wanted specify symbol of finish desired and submit sample.

*Limited to Ornamental Hardware. Plain Hardware to match to be Finish F—US4.

Stanley Finish Symbols

The Stanley Works	General Description Stanley Sherardized and Plated Finishes
ZA	Bright bronze, over sherardized
ZA4	Dull bronze, oxidized and relieved, over sherardized
ZA5	Dull bronze, over sherardized
ZB	Statuary bronze, over sherardized
ZB1	Statuary bronze, dark, over sherardized
ZC	Bright brass, over sherardized
ZD2	Antique copper, over sherardized
ZF	Dull brass, over sherardized
ZF4	Dull brass, oxidized and relieved, over sherardized
ZH	Sanded, dull black, over sherardized
ZJ	Bright japanned, over sherardized
ZJ1	Dead black japanned, over sherardized
ZL	Sherlac (sherardized, buffed and lacquered)
ZN	Nickel plated, over sherardized
ZN5	Nickel plated, dull, over sherardized
ZP	Priming coat, for painting, over sherardized
ZSB	Statuary bronze, sanded, over sherardized
ZSF4	Sanded brass, oxidized and relieved, over sherardized

STANLEY

Wrought Bronze and Brass

BUTTS

for WOOD DOORS

with WOOD JAMBS



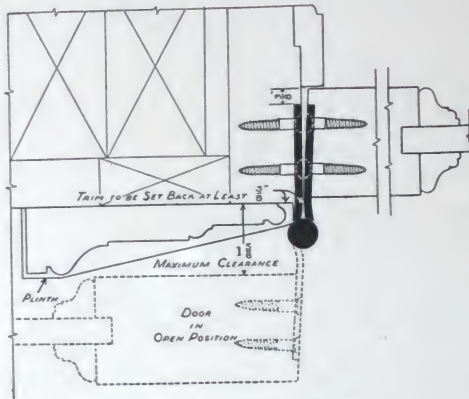
Stanley Extra Heavy Wrought Bronze Metal Ball Bearing Butt for Wood Doors

Polished and Highly Finished

FIVE KNUCKLES

LOOSE PIN

BALL TIP



For Table of
Clearances
See Page 6

Scale: One Quarter Full Size



No. BB181 (6" x 6")
One Quarter Full Size

No. BB181 (Extra Heavy) (U. S. Gov't Type 2002)

Designed for use on heavy doors, or for doors where high frequency of service is expected such as entrance doors to stores, office buildings, public buildings and similar buildings.

Made of extra heavy bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Equipped with **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise. Size 5 x 5 and smaller have two ball bearing washers, larger sizes have four.

The ball tip has squared shoulders fitting flush with the barrel of the butt. The loose pin has the Stanley non-rising and self lubricating features.

The inner edges of the leaves are beveled to make close fitting joints. The outer edges are ground true and the corners are square.

Class No. BB181 is stamped on the back of the butt.

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB199 Page 40.

DATA


Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB181	4½ x 4½	1½ x 12	8	2 lbs. 12 oz.	.180
	5 x 5	1½ x 14	10	4 lbs.	.190
	6 x 6	1¾ x 14	10	6 lbs. 8 oz.	.203
	8 x 8	1¾ x 14	10	9 lbs. 8 oz.	.203

How to Specify:

No. BB181

All exterior or interior doors (specify which) unless otherwise noted shall be equipped with extra heavy wrought bronze metal ball bearing butts with visible non-detachable washers. (Stanley No. BB181 or approved equal.) To be . . . inches high and of sufficient width to clear trim.

Doors shall have one butt for each 2½' or fraction thereof in height.

Look for the Stanley trade  mark on the face of the butt.

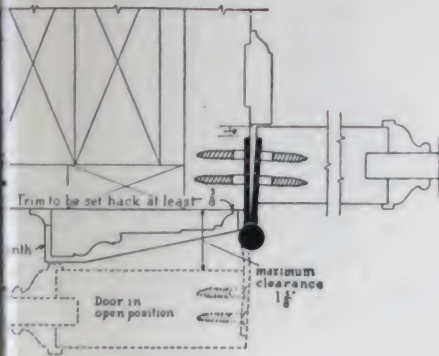
Stanley Wrought Bronze Metal Ball Bearing Butts for Wood Doors

Polished and Highly Finished

VE KNUCKLES

LOOSE PIN

BALL TIPS



For Table of
Clearances
See Page 6



No. BB180 ($4\frac{1}{2}" \times 4\frac{1}{2}"$)
One Quarter Full Size

Scale: One Quarter Full Size

No. BB180 (U. S. Gov't Type 2001)

Designed for use on exterior doors where an extra heavy bronze butt is not desired, and for interior doors of office buildings, public buildings, and similar buildings where the finest regular weight bronze ball bearing butt is desired.

Made of bronze, brass, or white bronze metal, hardened and hardened by cold rolling.

Equipped with two **Stanley Non-Detachable** ball bearing washers, which prevent the butts from separating at the joints and insure that doors will operate easily and without noise.

The ball tip has squared shoulders fitting flush with the barrel of the butt. The loose pin has the Stanley non-rising and self lubricating features.

The inner edges of the leaves are beveled to make close fitting joints. The outer edges are ground true and the corners are square.

Class No. BB180 is stamped on the back of the butt.

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB193 Page 40


How to Specify:

No. BB180

All exterior or interior doors (specify which) unless otherwise noted shall be equipped with wrought bronze metal ball bearing butts with visible non-detachable washers. (Stanley No. BB180 or approved equal.) To be . . . inches high and of sufficient width to clear trim.

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB180	3 x 3	1 x 8	6	13 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	1 x 9	8	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 13 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$1\frac{1}{4} \times 10$	8	2 lbs. 4 oz.	.134
	5 x 5	$1\frac{1}{4} \times 12$	10	3 lbs. 4 oz.	.146
	6 x 6	$1\frac{1}{2} \times 14$	10	5 lbs. 3 oz.	.160

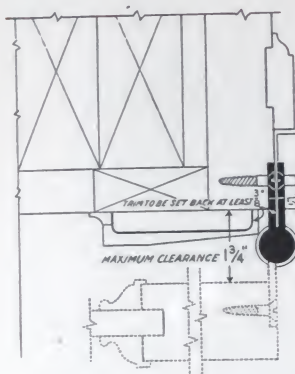
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Bronze Metal Ball Bearing Paumelles for Wood Doors

Polished and Highly Finished

LOOSE JOINT

SPECIFY HAN



Scale: One Quarter Full Size



No. 100 (3") L.H.
One Quarter
Full Size



No. BB100 (6") L.H.
One Quarter Full Size



Showing No. BB100 applied
Knuckle only is visible

No. 100-3"

Designed for use on cabinet work, such as book-cases, medicine cabinets, china closets, cupboards, etc. Equipped with a non-detachable metal washer.

No. BB100-5"-6"

Designed for use on doors of residences, hotels, office buildings, hospitals, and similar buildings. They meet the requirements where it is desired to show the minimum of hardware or where a departure from the conventional type of butt is desired.

Made of bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Equipped with a **Stanley Non-detachable** ball bearing washer which prevents the paumelles from wearing at the joint and insures that doors will operate easily and without noise.

Size 3" on $1\frac{1}{8}$ " cupboard door gives a maximum clearance of $\frac{9}{16}$ ".

Size 5" on $1\frac{3}{8}$ " door gives a maximum clearance of $1\frac{1}{4}$ ".

Size 6" on $1\frac{3}{4}$ " door gives a maximum clearance of $1\frac{3}{4}$ ".

Class Nos. are stamped on the back of the paumelles.

For hollow metal doors or wood doors with pressed steel jambs use; Template Paumelle No. BB95 Page 42

DATA

Class Nos.	Thickness of door	Size Open (Inches)	Width Inside of Leaves Open (Ins.)	Width of Leaves (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
100-3"	For cabinet doors, etc.	3 x $2\frac{3}{16}$	$1\frac{1}{16}$	$\frac{5}{8}$	1 x 10	6	5 oz.	.134
BB100-5"	For doors $1\frac{3}{8}$ " in thickness and under	5 x $3\frac{1}{4}$	$1\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$ x 10	8	1 lb. 4 oz.	.169
BB100-6"	For doors $1\frac{3}{4}$ " in thickness and over	6 x $3\frac{7}{8}$	$2\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$ x 12	8	1 lb. 12 oz.	.203

Not reversible, specify hand.

Look for the Stanley trade  mark on the face of the paumelle.

How to Specify:

No. BB100

All doors throughout unless otherwise noted shall be equipped with wrought bronze metal paumelles with a visible non-detachable ball bearing washer, except the 3" size. (Stanley BB100 or approved equal).

Size 3" for cabinet doors (not ball bearing).

Size 5" for doors $1\frac{3}{8}$ " in thickness and under.

Size 6" for doors $1\frac{3}{4}$ " in thickness and over.

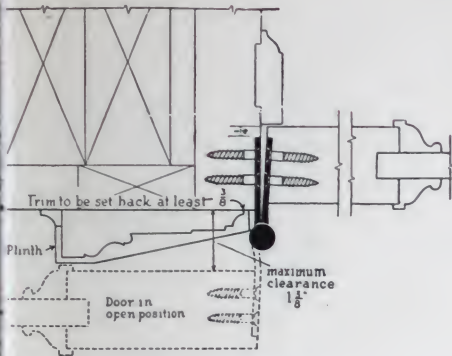
Doors shall have one paumelle for each $2\frac{1}{2}$ " or fraction thereof in height.

Stanley Wrought Bronze Metal Ball Bearing Hospital Butts for Wood Doors

Polished and Highly Finished

IVE KNUCKLES

FAST PIN



Scale: One Quarter Full Size

For Table of
Clearance
See Page 6



No. BB183 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

No. BB183

Designed by the Stanley Works for use on doors of institutions, hospitals, hotels, schools, colleges, and similar buildings.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Butts are easily kept free from dust and dirt. Ideal for buildings where special emphasis is put upon sanitation.

Made of bronze, brass and white bronze metal, toughened and hardened by cold rolling.

Equipped with two Stanley ball bearing washers which prevent the butts from wearing at the points and insure that doors will operate easily and without noise.

The inner edges of the leaves are beveled to make close fitting joints. The outer edges are ground true and the corners are square.

Class No. BB183 is stamped on the back of the butt.

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB198 Page 134~

How to Specify:


No. BB183

All interior doors unless otherwise noted shall be equipped with wrought bronze metal fast pin ball bearing hospital butts with visible washers. (Stanley No. BB183 or approved equal) to be . . . inches high and of sufficient width to clear trim.

Doors shall have one butt for each $2\frac{1}{4}'$ or fraction thereof in height.

DATA:

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB183	3 x 3	1 x 8	6	12 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	1 x 9	6	1 lb. 3 oz.	.123
	4 x 4	1 x 10	8	1 lb. 12 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$1\frac{1}{4} \times 10$	8	2 lbs.	.134
	5 x 5	$1\frac{1}{4} \times 12$	10	2 lbs. 12 oz.	.146
	6 x 6	$1\frac{1}{2} \times 14$	10	4 lbs. 5 oz.	.160

Look for the Stanley trade  mark on the face of the butt.

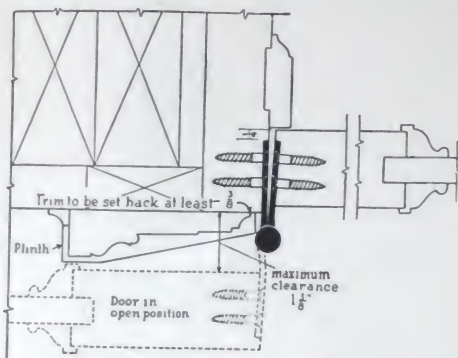
Stanley Wrought Bronze Metal (Steel Bushed) Butts for Wood Doors

Polished and Highly Finished

FIVE KNUCKLES

LOOSE PIN

BALL TIPS



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



Cut open to
show the Steel
Bushings

No. 175 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

No. 175 (U. S. Gov't Type 2005)

Designed for use on doors of residences where the finest butt is desired or for other exterior doors or interior doors used moderately where the ball bearing feature is not desired.

Made of bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Equipped with steel bushings which extend the entire length of each knuckle, preventing wear at the joints. However, their wearing qualities should not be compared with Stanley ball bearing butts.

The ball tip has squared shoulders fitting flush with the barrel of the butt. The loose pin has the Stanley non-rising feature.


The inner edges of the leaves are beveled to make close fitting joints. The outer edges are ground true and the corners are square.

Class No. 175 is stamped on the back of the butt.

For wood doors with pressed steel jambs
use; Template Butt No. 194 Page 44

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
175	2 x 2	$\frac{3}{4} \times 7$	4	5 oz.	.089
	$2\frac{1}{2} \times 2\frac{1}{2}$	$\frac{1}{2} \times 8$	6	8 oz.	.089
	3 x 3	1 x 8	6	13 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 13 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$1\frac{1}{4} \times 10$	8	2 lbs. 4 oz.	.134
	5 x 5	$1\frac{1}{4} \times 12$	10	3 lbs. 4 oz.	.146
	6 x 6	$1\frac{1}{2} \times 14$	10	5 lbs. 3 oz.	.160

Look for the Stanley trade  mark on the face of the butt.

How to Specify:

No. 175

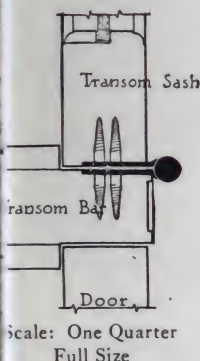
All exterior or interior doors (specify which) unless otherwise noted shall be equipped with wrought bronze metal (steel bushed) butts (Stanley No. 175 or approved equal). To be . . . inches high and sufficient width to clear trim.

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

Stanley Wrought Bronze Metal Transom Butts for Wood Transoms Finely Finished

VE KNUCKLES

FAST PIN



No. 192 $\frac{1}{2}$ ($3\frac{1}{2}$ " x $3\frac{1}{2}$ ")
One Quarter Full Size

No. 192 $\frac{1}{2}$ (U. S. Gov't Type 2028)

Designed for use on wood transoms with wood frames, and for other places where a fast pin butt is desired.

Butts and pins are made of bronze, brass and white bronze metal, toughened and hardened by cold rolling. The barrel of the butt is polished, and the surface of the leaves are buffed.

Inner edges of leaves are beveled to make close fitting joints.

Class No. 192 $\frac{1}{2}$ is stamped on the back of the butt.

For hollow metal transoms or wood transoms with pressed steel frames use;
Template Butt No. 196 $\frac{1}{2}$ Page 46

How to Specify:

No. 192 $\frac{1}{2}$

All exterior or interior transoms (specify which) unless otherwise noted shall be equipped with wrought bronze metal fast pin transom butts (Stanley No. 192 $\frac{1}{2}$ or approved equal) of proper size to suit details.

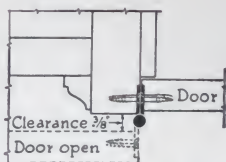
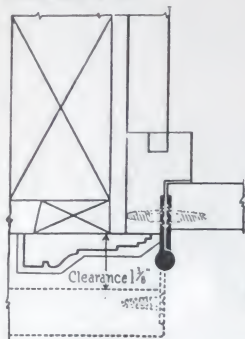
DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
192 $\frac{1}{2}$	3 x 3	1 x 9	6	14 oz.	.092
	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 12 oz.	.130

Look for Stanley trade  mark on the butt.

Stanley Wrought Brass Metal Butts for Cabinet and Cupboard Doors Finely Finished

LOOSE PIN

No. 195
Application

No. 189 Application

Scale: One Quarter Full Size

No. 189 (U. S. Gov't Type 2017A)

Designed for use on cabinet work, such as bookcases, cupboards, china closets, medicine cabinets, etc.

Made of wrought brass metal, toughened and hardened by cold rolling.

Pins are made of steel, sherardized, with solid metal tips.

Size 2" x 2" has three knuckles, larger sizes have five.

No. 195 (Narrow)

Designed for use on cabinet work, such as bookcases, cupboards, china closets, medicine cabinets, etc., where a narrow butt is desired.

Made of wrought brass metal, toughened and hardened by cold rolling.

Pins are made of steel, sherardized, with solid metal tips.

Size 2" and smaller have three knuckles, larger sizes have five.

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
189	2 x 2	3/4 x 6	4	4 oz.	.065
	2 1/2 x 2	3/4 x 6	6	5 oz.	.065
	2 1/2 x 2 1/2	3/4 x 6	6	6 oz.	.065
	3 x 2 1/2	3/4 x 7	6	8 oz.	.077
	3 x 3	3/4 x 8	6	10 oz.	.077

Class No.	Size Length of Joint (Inches)	Size, Width Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
195 Narrow	1 1/2	1 1/16	5/8 x 5	4	1 oz.	.050
	2	1 9/16	3/4 x 6	4	3 oz.	.065
	2 1/2	1 11/16	3/4 x 6	6	4 oz.	.065
	3	2	3/4 x 7	6	7 oz.	.074

Look for Stanley trade **STANLEY** mark on the butt.



BALL TIPS

No. 189 (3" x 3")
One Quarter Full SizeNo. 195 (3")
One Quarter Full Size**How to Specify:****No. 189**

All cabinet, medicine cabinet, bookcase, china closet and cupboard doors unless otherwise noted shall be equipped with wrought brass metal loose pin butts (Stanley No. 189 or approved equal) of proper size to suit details.

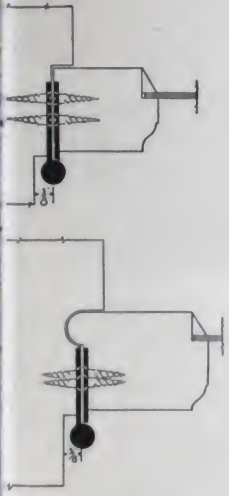
No. 195

All cabinet, medicine cabinet, bookcase, and cupboard doors unless otherwise noted shall be equipped with wrought brass metal narrow loose pin butts (Stanley No. 195 or approved equal) of proper size to suit details.

Stanley Wrought Bronze Metal (Steel Bushed) Butts for Casement Sash Opening In

Polished and Highly Finished

VE KNUCKLES



Scale: One Quarter Full Size

LOOSE PIN



Cut open
to show
Steel Bushings

BALL TIPS



No. 175 (4" x 4")
One Quarter Full Size

No. 175 (U. S. Gov't Type 2005)

For use on casement sash opening in.

Made of bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Equipped with steel bushings which extend the entire length of each knuckle, preventing wear at the joints.

The ball tip has squared shoulders fitting flush with the barrel of the butt. The loose pin has the Stanley non-rising feature.

The inner edges of the leaves are beveled to make close fitting joints. The outer edges are ground true and the corners are square.

Class No. 175 is stamped on the back of the butt.

How to Specify:


No. 175

All casement sash opening in unless otherwise noted shall be equipped with wrought bronze metal loose pin (steel bushed) butts (Stanley No. 175 or approved equal) of proper size to suit details.

Sash four feet and under in height, shall have two butts, over four feet, three butts.

ATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
175	3 x 3	1 x 8	6	13 oz.	.092
	3½ x 3½	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 13 oz.	.130

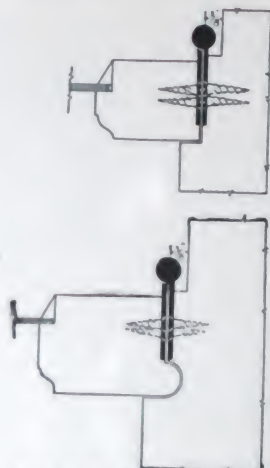
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Bronze Metal Butts for Casement Sash Opening Out

Finely Finished

FIVE KNUCKLES

FAST



Scale: One Quarter Full Size



No. 192 $\frac{1}{2}$ (3 $\frac{1}{2}$ " x 3 $\frac{1}{4}$ ")
One Quarter Full Size

No. 192 $\frac{1}{2}$ (U. S. Gov't Type 2028)

For use on casement sash opening out.

Butts and pins are made of bronze, brass, and white bronze metal, toughened and hardened by cold rolling. The barrel of the butt is polished, and the surface of the leaves are buffed.

Inner edges of leaves are beveled to make close fitting joints.

Class No. 192 $\frac{1}{2}$ is stamped on the back of the butt.

How to Specify:


No. 192 $\frac{1}{2}$

All casement sash opening out unless otherwise noted shall be equipped with wrought bronze metal fast pin butts (Stanley No. 192 $\frac{1}{2}$ or approved equal) of proper size to suit details.

Sash four feet and under in height, shall have two butts, over four feet, three butts.

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without screws	Gauge of Metal
192 $\frac{1}{2}$	3 x 3	1 x 8	6	14 oz.	.092
	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 12 oz.	.130

Look for Stanley trade  mark on the butt.

STANLEY

Wrought Steel

BUTTS

for

Wood Doors with

Wood Jambs



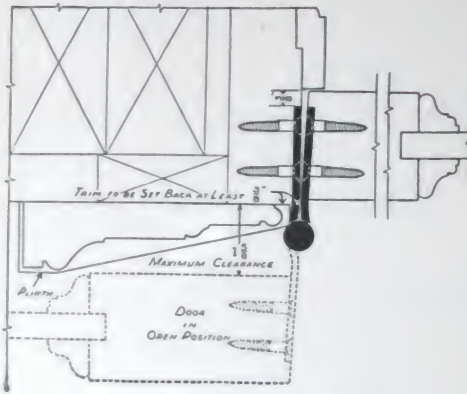
Stanley Extra Heavy Wrought Steel Ball Bearing Butts for Wood Doors

Polished and Heavily Plated

FIVE KNUCKLES

LOOSE PIN

BALL T



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB250 (6" x 6")
One Quarter Full Size

No. BB250 (Extra Heavy) (U. S. Gov't Type 2011)

Designed for use on interior doors where high frequency of service is expected, such as doors of office buildings, public buildings, and similar buildings. Also for exterior doors where a bronze metal butt is not desired.

Made of extra heavy wrought steel, toughened and hardened by cold rolling.

Equipped with Stanley Non-detachable ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise. Size 5 x 5 and smaller have two ball bearing washers, larger sizes have four.

Butts are polished, and copper plated before receiving final plated finish. This process insures a lasting high finish.

The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

The inner edges of the leaves are beveled to make close fitting joints. The outer edges are ground true and the corners are square.

Class No. BB250 is stamped on the back of the butt.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB168 Page 46

How to Specify:

No. BB250

All interior wood doors, unless otherwise noted shall be equipped with extra heavy wrought steel ball bearing butts with visible non-detachable washers (Stanley No. BB250 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each 2 1/4' or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB250	4 x 4	1 1/2 x 12	8	2 lbs. 8 oz.	.170
	4 1/2 x 4 1/2	1 3/4 x 12	8	3 lbs.	.180
	5 x 5	1 3/4 x 14	10	3 lbs. 13 oz.	.190
	6 x 6	1 3/4 x 14	10	6 lbs. 4 oz.	.203
	6 x 8	1 3/4 x 14	10	7 lbs. 5 oz.	.203
	8 x 8	1 3/4 x 14	14	9 lbs. 8 oz.	.203

Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Steel Ball Bearing Butts

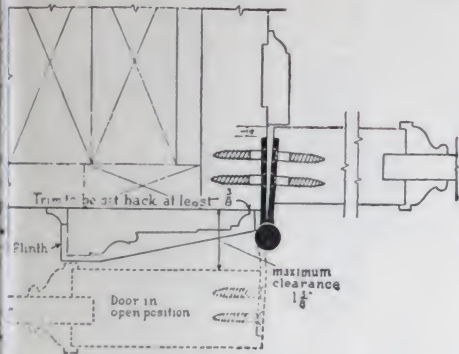
for Wood Doors

Polished and Heavily Plated

LOOSE PIN

FIVE KNUCKLES

BALL TIPS



Scale: One Quarter Full Size

No. BB239 (U. S. Gov't Type 2010B)

Designed for use on interior doors of office buildings, hotels, schools, public buildings, and fine residences, where the finest regular weight ball bearing butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

Butts are polished, and copper plated before receiving final plated finish. This process insures a lasting high finish.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

The inner edges of the leaves are beveled to make close fitting joints. The outer edges are ground true and the corners are square.

Class No. BB239 is stamped on the back of the butt.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB174 Page 4847

For Table of
Clearances
See Page 6



No. BB239 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

How to Specify:

No. BB239

All interior wood doors unless otherwise noted shall be equipped with wrought steel ball bearing butts with visible non-detachable washers (Stanley No. BB239 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB239	$2\frac{1}{2} \times 2\frac{1}{2}$	$\frac{7}{8} \times 8$	6	10 oz.	.089
	3×3	1×8	6	14 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	1×9	6	1 lb. 5 oz.	.123
	4×4	1×10	8	1 lb. 12 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$1\frac{1}{4} \times 10$	8	2 lbs. 4 oz.	.134
	5×5	$1\frac{1}{4} \times 12$	10	3 lbs.	.146
	6×6	$1\frac{1}{2} \times 14$	10	4 lbs. 8 oz.	.160

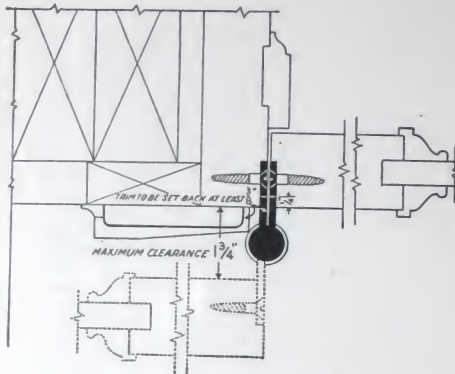
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Steel Ball Bearing Paumelles for Wood Doors

Polished and Heavily Plated

LOOSE JOINT

SPECIFY HAND



Scale: One Quarter Full Size

No. 201 (3") L.H.
One Quarter
Full Size

No. BB201 (6") L.H.
One Quarter Full Size



Showing No. BB201 applied
Knuckle only is visible

No. 201—3"

Designed for use on cabinet work, such as bookcases, medicine cabinets, china closets, cupboards, etc. Equipped with a non-detachable steel washer.

No. BB201—5"-6"

Designed for use on interior doors of residences, hotels, office buildings, hospitals, and similar buildings. They meet the requirements where it is desired to show the minimum of hardware or where a departure from the conventional type of butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with a **Stanley Non-detachable** ball bearing washer which prevents the paumelles from wearing at the joint and insures that doors will operate easily and without noise.

Paumelles are polished, and copper plated before receiving final plated finish. This process insures a lasting high finish.

Size 3" on 1 1/8" cupboard door gives a maximum clearance of 9/16".

Size 5" on 1 3/8" door gives a maximum clearance of 1 1/4".

Size 6" on 1 3/4" door gives a maximum clearance of 1 3/4".

Class Nos. are stamped on the back of the paumelles.

For hollow metal doors or wood doors with pressed steel jambs use; Template Paumelle No. BB141 Page 48

How to Specify:

No. BB201

All interior doors throughout unless otherwise noted shall be equipped with wrought steel paumelles with a visible non-detachable ball bearing washer, except the 3" size (Stanley BB201 or approved equal). Paumelles shall be polished and heavily plated.

Size 3" for cabinet doors (not ball bearing).

Size 5" for doors 1 3/8" in thickness and under.

Size 6" for doors 1 3/4" in thickness and over.

Doors shall have one paumelle for each 2 1/2' or fraction thereof in height.

DATA

Class Nos.	Thickness of door	Size Open (Inches)	Width inside of Leaves (Inches)	Width of Leaves (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
201-3"	For cabinet doors	3 x 2 5/16	1 1/16	5/8	1 x 10	6	5 oz.	.134
BB201-5"	For doors 1 3/8" in thickness and under	5 x 3 1/4	1 3/4	3/4	1 1/4 x 10	8	1 lb. 4 oz.	.169
BB201-6"	For doors 1 3/4" in thickness and over	6 x 3 7/8	2 1/4	1 3/16	1 1/4 x 12	8	1 lb. 12 oz.	.203

Not reversible, specify hand.

Look for the Stanley trade



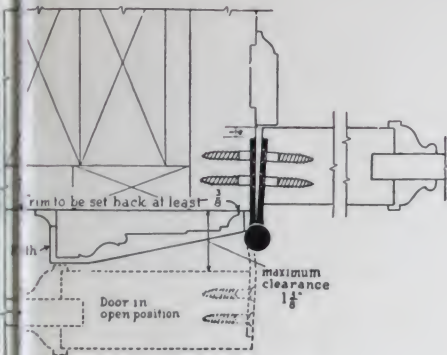
mark on the face of the paumelle.

Stanley Wrought Steel Ball Bearing Hospital Butts for Wood Doors

Polished and Heavily Plated

THE KNUCKLES

FAST PIN



For Table of
Clearances
See Page 6



No. BB237 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

Scale: One Quarter Full Size

BB237

Designed by The Stanley Works for use on interior doors of hospitals, institutions, hotels, colleges, and similar buildings.

The ends of the barrel are rounded, making it possible to attach ropes, wearing apparel, etc. Butts are easily kept free from dust and dirt. Ideal for buildings where special emphasis is put upon sanitation.

Made of wrought steel, toughened and hardened for cold rolling.

Equipped with two **Stanley** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

Butts are polished, and copper plated before receiving final plated finish. This process insures a lasting high finish.

The inner edges of the leaves are beveled to make the fitting joints. The outer edges are ground true at the corners are square.

Class No. BB237 is stamped on the back of the butt.

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB197 Page 50-49

How to Specify:

No. BB237

All interior wood doors unless otherwise noted shall be equipped with wrought steel fast pin ball bearing hospital butts with visible washers (Stanley No. BB237 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

ETA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB237	3 x 3	1 x 8	6	12 oz.	.092
	3½ x 3½	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 12 oz.	.130
	4½ x 4½	1¼ x 10	8	2 lbs.	.134
	5 x 5	1¼ x 12	10	2 lbs. 12 oz.	.146
	6 x 6	1½ x 14	10	4 lbs. 5 oz.	.160

Look for the Stanley trade **STANLEY** mark on the face of the butt.



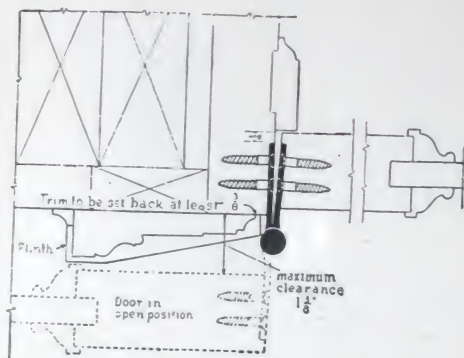
Stanley Wrought Steel Ball Bearing Butts for Wood Doors

Polished and Plated

FIVE KNUCKLES

LOOSE PIN

BAL



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB241 $\frac{1}{2}$
(4 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ ")
One Quarter Full Size

No. BB241 $\frac{1}{2}$ (U. S. Gov't Type 2010A)

Designed for use on interior doors where a finely finished ball bearing butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features.

Class No. BB241 $\frac{1}{2}$ is stamped on the back of the butt.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB241 $\frac{1}{2}$	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	$\frac{7}{8}$ x 8	6	10 oz.	.089
	3 x 3	1 x 8	6	14 oz.	.092
	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 12 oz.	.130
	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	1 $\frac{1}{4}$ x 10	8	2 lbs. 4 oz.	.134
	5 x 5	1 $\frac{1}{4}$ x 12	10	3 lbs.	.146
	6 x 6	1 $\frac{1}{2}$ x 14	10	4 lbs. 8 oz.	.160

Look for the Stanley trade **STANLEY** mark on the face of the butt.



How to Specify:

No. BB241 $\frac{1}{2}$

All interior wood doors unless otherwise noted shall be equipped with wrought steel ball bearing butts with visible non-detachable washers (Stanley No. BB241 $\frac{1}{2}$ or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be polished and plated.

Doors shall have one butt for each 2 $\frac{1}{2}$ ' or fraction thereof in height.

Stanley Wrought Steel Ball Bearing Butts for Wood Doors

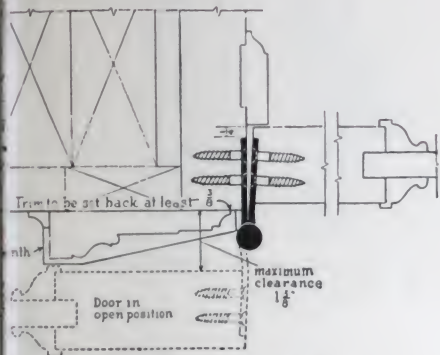
Planished and Plated

L TIP

FIVE KNUCKLES

LOOSE PIN

BALL TIPS



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB241 ($4\frac{1}{2}$ " x $4\frac{1}{2}$ ")
One Quarter Full Size

No. BB241 (U. S. Gov't Type 2010)

Designed for use on interior doors where a good practical ball bearing butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features.

Class No. BB241 is stamped on the back of the butt.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB179 Page 50

How to Specify:

No. BB241

All interior wood doors unless otherwise noted shall be equipped with wrought steel ball bearing butts with visible non-detachable washers (Stanley No. BB241 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be planished and plated.

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

DATA

Class Nos.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB241	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{7}{8}$ x 8	6	10 oz.	.089
	3 x 3	1 x 8	6	14 oz.	.092
	$3\frac{1}{2}$ x $3\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 12 oz.	.130
	$4\frac{1}{2}$ x $4\frac{1}{2}$	$1\frac{1}{4}$ x 10	8	2 lbs. 4 oz.	.134
	5 x 5	$1\frac{1}{4}$ x 12	10	3 lbs.	.146
	6 x 6	$1\frac{1}{2}$ x 14	10	4 lbs. 8 oz.	.160

Look for the Stanley trade **STANLEY** mark on the face of the butt.

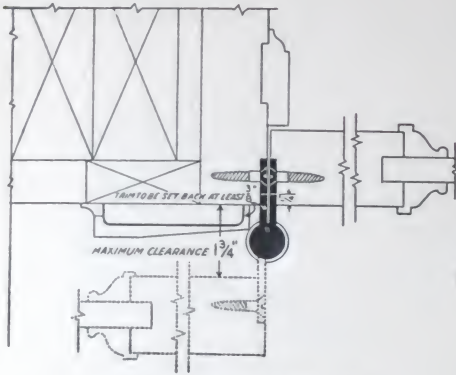


Stanley Wrought Steel Ball Bearing Paumelles for Wood Doors

For Painting

LOOSE JOINT

SPECIFY HAND



Scale: One Quarter Full Size



No. 200 (3") L. H.
One Quarter Full Size



No. BB200 (6") L. H.
One Quarter Full Size



Showing No. BB200 applied.
Knuckle only is visible.

No. 200—3"

Designed for use on cabinet work, such as bookcases, medicine cabinets, china closets, cupboards, etc.

Equipped with a non-detachable steel washer.

No. BB200—5"-6"

Designed for use on interior doors of residences, hotels, office buildings, hospitals, and similar buildings where paumelles are to be painted to match the woodwork. They meet the requirements where it is desired to show the minimum of hardware or where a departure from the conventional type of butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with a **Stanley Non-detachable** ball bearing washer which prevents the paumelles from wearing at the joint and insures that doors will operate easily and without noise.

Paumelles are furnished with a priming coat. White or colored paint can be applied to these paumelles without additional preparation. To match natural finished woodwork or stained woodwork give the paumelles one ground coat, then varnish same as the woodwork.

When desired, these paumelles can be furnished in Stanley sherardized finish with priming coat.

Size 3" on $1\frac{3}{8}$ " cupboard door gives a maximum clearance of $\frac{9}{16}$ ".

Size 5" on $1\frac{3}{8}$ " door gives a maximum clearance of $1\frac{1}{4}$ ".

Size 6" on $1\frac{3}{4}$ " door gives a maximum clearance of $1\frac{3}{4}$ ".

Class No. BB200 is stamped on the back of the paumelle.

For hollow metal doors or wood doors with pressed steel jambs use; Template Paumelle No. BB140 Page 5f

How to Specify:

No. BB200

All interior doors unless otherwise noted shall be equipped with wrought steel paumelles with a visible non-detachable ball bearing washer, except the 3" size. (Stanley BB200 or approved equal). Paumelles shall have a priming coat or sherardized with a priming coat for painting. (Specify which.)

Size 3" for cabinet doors (not ball bearing).

Size 5" for doors $1\frac{3}{8}$ " in thickness and under.


Size 6" for doors $1\frac{3}{4}$ " in thickness and over.

Doors shall have one paumelle for each $2\frac{1}{2}$ " or fraction thereof in height.

DATA

Class Nos.	Thickness of door	Size Open (Inches)	Width inside of Leaves Open (Ins.)	Width of Leaves (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
200-3"	For cabinet doors	3 x $2\frac{3}{16}$	$1\frac{1}{16}$	$\frac{5}{8}$	1 x 10	6	5 oz.	.134
BB200-5"	For doors $1\frac{3}{8}$ " in thickness and under	5 x $3\frac{1}{4}$	$1\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$ x 10	8	1 lb. 4 oz.	.169
BB200-6"	For doors $1\frac{3}{4}$ " in thickness and over	6 x $3\frac{7}{8}$	$2\frac{1}{4}$	$1\frac{3}{16}$	$1\frac{1}{4}$ x 12	8	1 lb. 12 oz.	.203

Not reversible, specify hand.

Look for the Stanley trade  mark on the face of the paumelle

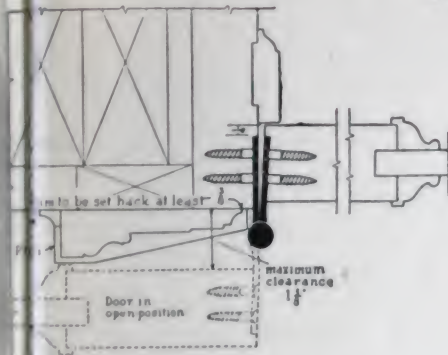
Stanley Wrought Steel Ball Bearing Butts for Wood Doors

FIVE KNUCKLES

LOOSE PIN

BUTTON TIPS

For Painting



For Table of
Clearances
See Page 6

Scale: One Quarter Full Size



No. BB235 ($4\frac{1}{4}'' \times 4\frac{1}{4}''$)
One Quarter Full Size

No. BB235

Designed for use on interior doors of office buildings, hotels, public buildings, residences, etc. where butts are to be painted to match the woodwork.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The button tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The tips fit flush with the barrel of the butt.

The barrel of the butt is ground to give a uniform appearance. The inner edges of the leaves are milled back on a bevel, allowing sufficient clearance to prevent the paint from being scraped off the barrel of the butt when the door is operated.

Butts are furnished with a priming coat. White or colored paint can be applied to these butts without additional preparation. To match natural finished woodwork or stained woodwork, give the butts one ground coat, then varnish same as the woodwork.

When desired, these butts can be furnished in Stanley Sherardized finish without priming coat.

Class No. BB235 is stamped on the back of the butt.

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB145 Page 52

How to Specify:


No. BB235

All interior doors unless otherwise noted shall be equipped with wrought steel ball bearing butts with visible non-detachable washers.

Inner edges of leaves shall be milled back on a bevel to clear for paint (Stanley No. BB235 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall have a priming coat or sherardized finish. (Specify which).

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without screws	Gauge of Metal
BB235	3 x 3	1 x 8	6	14 oz.	092
	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	123
	4 x 4	1 x 10	8	1 lb. 12 oz.	130
	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	1 $\frac{1}{4}$ x 10	8	2 lbs. 4 oz.	134
	5 x 5	1 $\frac{1}{4}$ x 12	10	3 lbs.	146
	6 x 6	1 $\frac{1}{2}$ x 14	10	4 lbs. 8 oz.	160

Look for the Stanley trade  mark on the face of the butt.

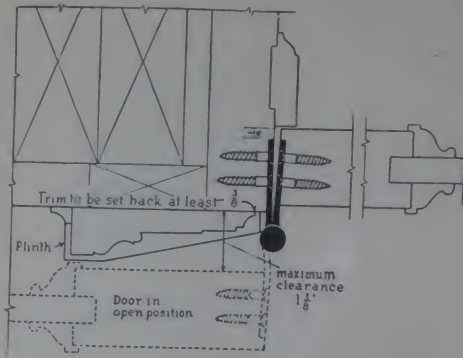
Stanley Wrought Steel Ball Bearing Butts for Wood Doors

FIVE KNUCKLES

LOOSE PIN

BUTTS

For Painting



For Table of
Clearances
See Page 6



No. BB242 ($4\frac{1}{2}$ " x 4")
One Quarter Full Size

Scale: One Quarter Full Size

No. BB242

Designed for use on interior doors of office buildings, hotels, public buildings, residences, etc. where butts are to be painted to match the woodwork.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The button tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The tips fit flush with the barrel of the butt.

The inner edges of the leaves are milled back, allowing sufficient clearance to prevent the paint from being scraped off the barrel of the butt when the door is operated.

Butts are furnished with a priming coat. White or colored paint can be applied to these butts without additional preparation. To match natural finished woodwork or stained woodwork, give the butts one ground coat, then varnish same as the woodwork.

When desired, these butts can be furnished in Stanley Sherardized finish without priming coat.

Class No. BB242 is stamped on the back of the butt.

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB146 Page 54

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gau of M
BB242	3 x 3	1 x 8	6	14 oz.	.09
	$3\frac{1}{2}$ x $3\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	.12
	4 x 4	1 x 10	8	1 lb. 12 oz.	.13
	$4\frac{1}{2}$ x $4\frac{1}{2}$	$1\frac{1}{4}$ x 10	8	2 lbs. 4 oz.	.13
	5 x 5	$1\frac{1}{4}$ x 12	10	3 lbs.	.14
	6 x 6	$1\frac{1}{2}$ x 14	10	4 lbs. 8 oz.	.16

Look for the Stanley trade  mark on the face of the butt.

How to Specify:

No. BB242

All interior doors unless otherwise noted shall be equipped with wrought steel ball bearing butts with vis non-detachable washers.

Inner edges of leaves shall be milled back to clear paint (Stanley No. BB or approved equal). To . . . inches high and of sufficient width to clear trim. Butts shall have a priming coat or sherardized finish (Specify which).

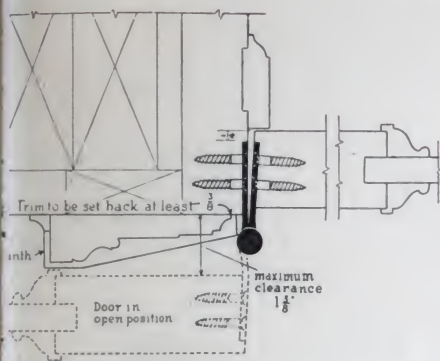
Doors shall have one butt for each $2\frac{1}{2}$ ' or fraction thereof in height.

Stanley Wrought Steel Ball Bearing Butts for Wood Doors

For Painting
BUTTON TIPS

SPECIFY HAND

DOSE JOINT



For Table of
Clearances
See Page 6



No. BB214 ($4\frac{1}{2}$ " x $4\frac{1}{2}$ " L.H.
One Quarter Full Size

Scale: One Quarter Full Size

No. BB214

Designed for use on interior doors where the butts are to be painted to match the woodwork.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with a **Stanley Non-Detachable** ball bearing washer, which prevents the butts from wearing the joint and insures that doors will operate easily and without noise.

The tips fit flush with the barrel of the butt.

The barrel of the butt is ground to give a uniform appearance. The inner edges of the leaves are milled back on a bevel, allowing sufficient clearance to prevent the paint from being scraped off the barrel of the butt when the door is operated.

Butts are furnished with a priming coat. White colored paint can be applied to these butts without additional preparation. To match natural finished woodwork or stained woodwork, give the butts one round coat, then varnish same as the woodwork.

When desired, these butts can be furnished in Stanley Sherardized finish without priming coat.

Class No. BB214 is stamped on the back of the butt.

For hollow metal doors or wood doors with pressed steel jambs use; Template Butt No. BB144 Page 56

How to Specify:

No. BB214

All interior doors unless otherwise specified shall be equipped with wrought steel loose joint butts with a visible non-detachable ball bearing washer. Inner edges of leaves shall be milled back on a bevel to clear for paint (Stanley No. BB214 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall have a priming coat or sherardized finish. (Specify which.)

Doors shall have one butt for each $2\frac{1}{2}$ ' or fraction thereof in height.

ATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB214	3 x 3	1 x 8	6	14 oz.	.092
	$3\frac{1}{2}$ x $3\frac{1}{2}$	1 x 9	6	1 lb. 5 oz.	.123
	4 x 4	1 x 10	8	1 lb. 13 oz.	.130
	$4\frac{1}{2}$ x $4\frac{1}{2}$	$1\frac{1}{4}$ x 10	8	2 lbs. 4 oz.	.134

Not reversible, specify hand.

Look for the Stanley trade  mark on the face of the butt.

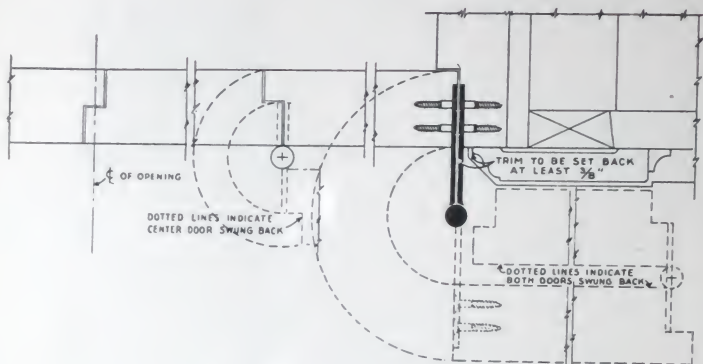


Stanley Wrought Steel Ball Bearing Butts for Folding Doors

Planished and Plated

LOOSE PIN

BALL



Scale: One Quarter Full Size



No. BB243 ($2\frac{3}{4}$ " x 6"
One Quarter Full Size)

No. BB243

Designed for use on the jamb leaf of folding doors. They give sufficient clearance to permit two doors to be folded together and stand parallel when open.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley Non-Detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has Stanley non-rising and self-lubricating features.

The center of the inside screw hole is one inch from the outer edge of the leaf.

Size $2\frac{3}{4}$ x 6 has three knuckles, size 4 x 7 has five.

Class No. BB243 is stamped on the back of the butt.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB243	$2\frac{3}{4}$ x 6	1 x 10	8	2 lbs.	.122
	4 x 7	1 x 10	8	2 lbs. 7 oz.	.130

Look for the Stanley trade **STANLEY** mark on the face of the butt.



How to Specify:

No. BB243

The jamb leaf of all folding doors shall be equipped with wrought steel ball bearing butts with visible non-detachable washers (Stanley No. BB243 or approved equal) of proper size to suit details. Butts shall be planished and plated.

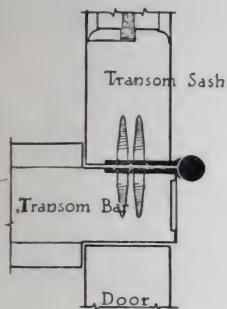
Doors shall have one butt for each $2\frac{1}{2}$ ' or fraction thereof in height.

Stanley Wrought Steel Transom Butts

for Wood Transoms

FIVE KNUCKLES

FAST PIN



Scale: One Quarter Full Size



Nos. 291½-291 (3½" x 3½")
One Quarter Full Size

No. 291½ Polished and Plated
(U. S. Gov't Type 2030C)

No. 291 Planished and Plated
(U. S. Gov't Type 2030B)

Designed for use on interior wood transoms with wood frames and for other places where a fast pin butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

For hollow metal transoms or wood transoms with pressed steel frames use; Template Butt No. 176 or 178 Page 56

How to Specify:

No. 291½

All interior wood transoms with wood frames unless otherwise noted shall be equipped with wrought steel polished and plated fast pin transom butts (Stanley No. 291½ or approved equal) of proper size to suit details.

No. 291

All interior wood transoms with wood frames unless otherwise noted shall be equipped with wrought steel planished and plated fast pin transom butts (Stanley No. 291 or approved equal) of proper size to suit details.

DATA

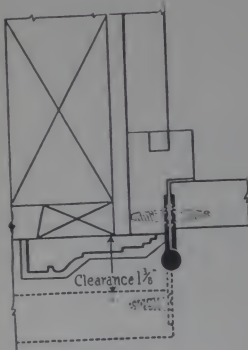
Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
291½	3 x 3	1 x 8	6	11 oz.	.092
	3½ x 3½	1 x 9	6	13 oz.	.123
291	4 x 4	1 x 10	8	1 lb. 4 oz.	.130

Look for Stanley trade  mark on the butt.



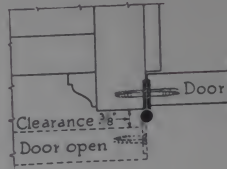
Stanley Wrought Steel Butts for Cabinet and Cupboard Doors

LOOSE PIN



No. 289 1/2 Application

Scale: One Quarter Full Size



No. 297
Application

BALL TIP



Nos. 289 1/2-289 (3' x 3')
One Quarter Full Size



Nos. 297-295 (3')
One Quarter Full Size

- No. 289 1/2 Polished and Plated**
(U. S. Gov't Type 2018A)
- No. 289 Planished and Plated**
(U. S. Gov't Type 2018)

Designed for use on cabinet work, such as bookcases, cupboards, china closets, medicine cabinets, etc. Made of wrought steel, toughened and hardened by cold rolling. Ball tip and pin are made of one piece of steel.

Size 2" x 2" has three knuckles, larger sizes have five.

- No. 297 (Narrow) Polished and Plated**
No. 295 (Narrow) Planished and Plated

Designed for use on cabinet work, such as bookcases, cupboards, medicine cabinets, china closets, etc., where a narrow butt is desired.

Made of wrought steel, toughened and hardened by cold rolling. Ball tip and pin are made of one piece of steel.

Size 2" and smaller have three knuckles, larger sizes have five.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

DATA

Class Nos.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
289 1/2	2 x 2	3/4 x 6	4	3 oz.	.065
	2 1/2 x 2	3/4 x 6	6	4 oz.	.065
289	2 1/2 x 2 1/2	3/4 x 6	6	6 oz.	.065
	3 x 2 1/2	3/4 x 7	6	7 oz.	.077
	3 x 3	3/4 x 8	6	8 oz.	.077

Class Nos.	Size Length of Joint (Inches)	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
297	1 1/2	1 1/16	5/8 x 5	4	1 oz.	.050
	2	1 9/16	3/4 x 6	4	3 oz.	.065
295	2 1/2	1 11/16	3/4 x 6	6	4 oz.	.065
	3	2	3/4 x 7	6	5 oz.	.074

Look for Stanley trade **STANLEY** mark on the butt.



How to Specify:

No. 289 1/2
All cabinet, bookcase, medicine cabinet, china closet, and cupboard doors unless otherwise noted shall be equipped with wrought steel polished and plated loose pin butts (Stanley No. 289 1/2 or approved equal) of proper size to suit details.

No. 289
All cabinet, bookcase, medicine cabinet, china closet, and cupboard doors unless otherwise noted shall be equipped with wrought steel planished and plated loose pin butts (Stanley No. 289 or approved equal) of proper size to suit details.

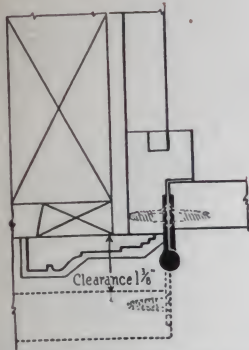
No. 297
All cabinet, bookcase, medicine cabinet, china closet, and cupboard doors unless otherwise noted shall be equipped with wrought steel polished and plated narrow loose pin butts (Stanley No. 297 or approved equal) of proper size to suit details.

No. 295
All cabinet, bookcase, medicine cabinet, china closet, and cupboard doors unless otherwise noted shall be equipped with wrought steel planished and plated narrow loose pin butts (Stanley No. 295 or approved equal) of proper size to suit details.

Stanley Wrought Steel Butts for Cabinet and Cupboard Doors

For Painting

LOOSE PIN



Scale: One Quarter Full Size

BUTTON TIPS



No. 285 (3" x 3")
One Quarter Full Size

No. 285

Designed for use on cabinet work, such as bookcases, cupboards, china closets, medicine cabinets, etc., where the butts are to be painted to match the woodwork.

Made of wrought steel, toughened and hardened by cold rolling. Button tip and pin are made of one piece of steel.

The barrel of the butt is ground to give a uniform appearance. The inner edges of the leaves are milled back on a bevel, allowing sufficient clearance to prevent the paint from being scraped off the barrel of the butt when the door is operated.

Butts are furnished with a priming coat. White or colored paint can be applied to these butts without additional preparation. To match natural finished woodwork or stained woodwork, give the butts one ground coat, then varnish same as the woodwork.

Size 2" x 2" has three knuckles, larger sizes have five.

When desired, these butts can be furnished in Stanley Sherardized finish without priming coat.

DATA

Class No.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
285	2 x 2	3/4 x 6	4	3 oz.	.065
	2 1/2 x 2	3/4 x 6	6	4 oz.	.065
	2 1/2 x 2 1/2	3/4 x 6	6	6 oz.	.065
	3 x 2 1/2	3/4 x 7	6	7 oz.	.077
	3 x 3	3/4 x 8	6	8 oz.	.077

How to Specify:

No. 285

All cabinet, bookcase, medicine cabinet, china closet, and cupboard doors unless otherwise noted shall be equipped with wrought steel butts designed for painting (Stanley No. 285 or approved equal) of proper size to suit details.

Inner edges of leaves shall be milled back on a bevel to clear for paint and the butts shall have a priming coat or sherardized finish. (Specify which.)

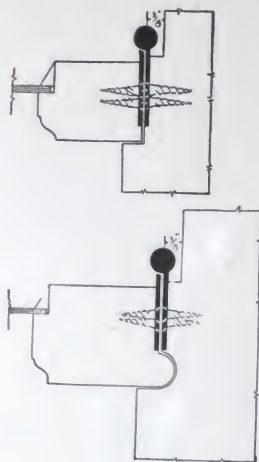
Look for Stanley trade  mark on the butt.

Stanley Wrought Steel Butts

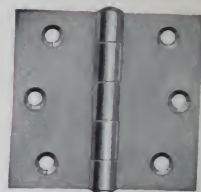
for Casement Sash Opening Out

FIVE KNUCKLES

FAS



Scale: One Quarter Full Size



Nos. Z291-1319
(3½" x 3½")
One Quarter Full Size

No. Z291 Sherardized and Plated

No. 1319 Galvanized with Brass Pins

For use on casement sash opening out.

Made of wrought steel, toughened and hardened by cold rolling.

How to Specify:

No. Z291

All casement sash opening out unless otherwise noted shall be equipped with wrought steel fast pin butts, sherardized and plated (Stanley No. Z291 or approved equal) of proper size to suit details.

No. 1319

All casement sash opening out unless otherwise noted shall be equipped with wrought steel fast pin butts, galvanized with brass pins (Stanley No. 1319 or approved equal) of proper size to suit details.

Sash, four feet and under in height shall have two butts, over four feet, three butts.

DATA

Class Nos.	Size Open (Inches)	Size of Wood Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
Z291	3 x 3	1 x 8	6	11 oz.	.092
1319	3½ x 3½	1 x 9	6	13 oz.	.123
	4 x 4	1 x 10	8	1 lb. 4 oz.	.130

Look for Stanley trade **STANLEY** mark on the butt.



ST P

STANLEY

Wrought Bronze and Brass

TEMPLATE BUTTS

for

Hollow Metal Doors *or* Wood
Doors *with* Pressed Steel Jambs



All manufacturers of hollow metal doors and pressed steel jambs have been furnished with actual templates and blueprints of all Stanley Template Butts.

When Stanley Template Butts are to be used it is only necessary to specify that doors and jambs shall be drilled for Stanley Template Butt No. (state class number and size.)

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Stanley Template Butts

Stanley Template Butts are made exact in size and gauge of metal and the screw holes are located accurately with the aid of a template. These butts will exactly fit the sinkage screw hole location in hollow metal doors and pressed steel jambs made to similar template.

The location of the screw holes in Stanley Template Butts was scientifically worked by this organization and has been used for many years. With the assurance that the screw holes of our template butts are thoroughly standardized, the manufacturer of hollow metal doors and pressed steel jambs knows he will not be called upon to make alterations on the job.

When Stanley Template Butts are used on hollow metal doors with pressed steel jambs they are packed regularly with machine screws. When used on wood doors with pressed steel jambs it is necessary to state that they are to be packed with one-half wood screws and one-half machine screws.

The Stanley Works high standard of quality has a special opportunity to prove it in the Template Butt line. Each individual butt is carefully inspected and is held within commercial limits which have been established through long experience and close attention to the needs of the manufacturers.

When an actual sample of a Template Butt is not required, we advise the use of blueprint templates which are available on all sizes of Stanley Template Butts without charge. These are drawings showing actual measurements, location and size of machine screws and gauge of metal.

Each butt is stamped with the class number on the back.

Stanley Screw Hole Locations



Showing Screw Hole location in a regular Stanley Ball Bearing Butt, Size $4\frac{1}{2}'' \times 4\frac{1}{2}''$



Showing Screw Hole location in a Stanley Template Ball Bearing Butt, Size $4\frac{1}{2}'' \times 4\frac{1}{2}''$

Stanley Extra Heavy Wrought Bronze Metal Template Ball Bearing Butts

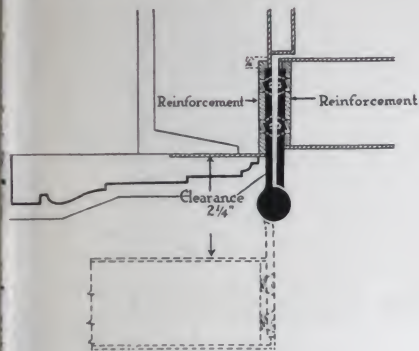
39

Polished and Highly Finished

FIVE KNUCKLES

LOOSE PIN

BALL TIPS



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB199 (6" x 6")
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB199 (Extra Heavy)

Designed for use on exterior hollow metal or bronze doors, and for interior hollow metal doors where high frequency of service is expected, such as doors of office buildings, public buildings, and similar buildings.

Made of extra heavy bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Screw holes are located accurately to template, so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise. Size 5 x 5 and smaller have two ball bearing washers, larger sizes have four.

The ball tip has squared shoulders fitting flush with the barrel of the butt. The loose pin has the Stanley non-rising and self-lubricating features.

Inner edges of leaves are beveled to make close fitting joints.

Class No. BB199 is stamped on the back of the butt.

For wood doors with wood jambs use; No. BB181 Page 12

How to Specify:

No. BB199

All exterior or interior (specify which) hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with extra heavy wrought bronze metal template ball bearing butts with visible non-detachable washers. (Stanley No. BB199 or approved equal). To be . . . inches high and of sufficient width to clear trim.

Doors shall have one butt for each 2 1/2' or fraction thereof in height.

ATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB199	4 1/2 x 4 1/2	1/2 x 12-24	8	2 lbs. 12 oz.	180
	5 x 5	1/2 x 12-24	8	4 lbs.	190
	6 x 6	1/2 x 1/4-20	10	6 lbs. 8 oz.	203
	8 x 8	1/2 x 1/4-20	16	9 lbs. 8 oz.	203

Look for the Stanley trade **STANLEY** mark on the face of the butt.



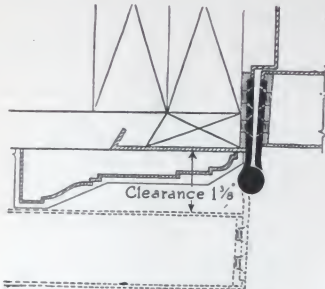
Stanley Wrought Bronze Metal Template Ball Bearing Butt

Polished and Highly Finished

FIVE KNUCKLES

LOOSE PIN

BALL T



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB193 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB193

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs where the finest regular weight bronze ball bearing butt is desired, also for exterior metal doors where an extra heavy bronze butt is not desired.

Made of bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip has squared shoulders fitting flush with the barrel of the butt. The loose pin has the Stanley non-rising and self-lubricating features.

Inner edges of leaves are beveled to make close fitting joints.

Class No. BB193 is stamped on the back of the butt.

For wood doors with wood jambs use; No. BB180 Page 13

How to Specify:


No. BB193

All exterior or interior hollow metal doors (specify which) or wood doors with pressed steel jambs unless otherwise noted, shall be equipped with wrought bronze metal template ball bearing butts with visible non-detachable washers. (Stanley No. BB193 or approved equal). To be . . . inches high and of sufficient width to clear trim.

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB193	3 x 3	$\frac{1}{2} \times 10-24$	6	13 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2} \times 10-24$	6	1 lb. 5 oz.	.123
	4 x 4	$\frac{1}{2} \times 12-24$	8	1 lb. 13 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$\frac{1}{2} \times 12-24$	8	2 lbs. 4 oz.	.134
	5 x 5	$\frac{1}{2} \times 12-24$	8	3 lbs. 4 oz.	.146
	6 x 6	$\frac{1}{2} \times \frac{1}{4}-20$	8	5 lbs. 3 oz.	.160
		*No. 8 British Head	10		

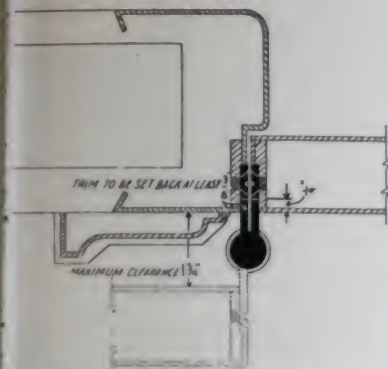
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Bronze Metal Template Ball Bearing Paumelles

Polished and Highly Finished

DOSE JOINT

SPECIFY HAND



Scale: One Quarter Full Size



No. BB95 (6") L.H.
One Quarter
Full Size



Showing No. BB95 applied
Knuckle only is visible

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB95

Designed for use on hollow metal doors or wood doors with pressed steel jambs of hotels, hospitals, office buildings, public buildings, and similar buildings. They meet the requirements where it is desired to show the minimum of hardware or where a departure from the conventional type of butt is desired.

Made of bronze, brass, and white bronze metal, hardened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with a **Stanley Non-detachable** ball bearing washer, which prevents the paumelles from binding at the joint and insures that doors will operate easily and without noise.

Size 5" on $1\frac{3}{8}$ " door gives a maximum clearance $1\frac{1}{4}$ ".

Size 6" on $1\frac{3}{4}$ " door gives a maximum clearance $1\frac{3}{4}$ ".

Class No. BB95 is stamped on the back of the paumelle.

For wood doors with wood jambs use; No. BB100 Page 14

How to Specify:

No. BB95

All hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought bronze metal template paumelles with a visible non-detachable ball bearing washer. (Stanley BB95 or approved equal).

Size 5" for doors $1\frac{3}{8}$ " in thickness and under.

Size 6" for doors $1\frac{3}{4}$ " in thickness and over.

Doors shall have one paumelle for each $2\frac{1}{2}$ " or fraction thereof in height.

DATA

Class No.	Thickness of Door	Size Open (Inches)	Width Inside of Leaves Open (Inches)	Width of Leaves (Inches)	Size of Machine Screws	No. of Screws	Weight per pair without Screws	Weight of Metal
BB95-5"	For doors $1\frac{3}{8}$ " in thickness and under	5 x $3\frac{1}{4}$	$1\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$ x 10-24	8	1 lb. 4 oz.	169
BB95-6"	For doors $1\frac{3}{4}$ " in thickness and over	6 x $3\frac{1}{4}$	$2\frac{1}{4}$	$1\frac{1}{2}$	$\frac{1}{2}$ x 12-24	8	1 lb. 12 oz.	208

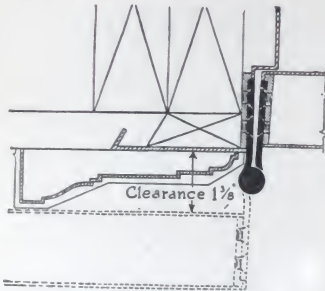
not reversible, specify hand.

Look for the Stanley trade  mark on the face of the paumelle.

Stanley Wrought Bronze Metal Template Ball Bearing Hospital Butts

Polished and Highly Finished

FIVE KNUCKLES



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6

FAST



No. BB198 (4 1/2" x 4")
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB198

Designed by The Stanley Works for use on interior hollow metal doors or wood doors with pressed steel jambs of institutions, hospitals, hotels, schools, colleges, and similar buildings.

The ends of the barrel are rounded making it impossible to attach ropes, wearing apparel, etc. Butts are easily kept free from dust and dirt. Ideal for buildings where special emphasis is put upon sanitation.

Made of bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Screw holes are located accurately to template, so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two Stanley ball bearings washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

Inner edges of leaves are beveled to make close fitting joints.

Class No. BB198 is stamped on the back of the butt.

For wood doors with wood jambs use; No. BB183 Page 15

DATA


Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB198	3 x 3	*1/2 x 10-24	6	12 oz.	.092
	3 1/2 x 3 1/2	1/2 x 10-24	6	1 lb. 3 oz.	.123
	4 x 4	1/2 x 12-24	8	1 lb. 12 oz.	.130
	4 1/2 x 4 1/2	1/2 x 12-24	8	2 lbs.	.134
	5 x 5	1/2 x 12-24	8	2 lbs. 12 oz.	.146
	6 x 6	1/2 x 1/4-20	10	4 lbs. 5 oz.	.160
		*No. 8 British Head			

How to Specify:

No. BB198

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted, shall be equipped with wrought bronze metal template fast pin ball bearing hospital butts with visible washers. (Stanley No. BB198 or approved equal) to be... inches high and of sufficient width to clear trim.

Doors shall have one butt for each 2 1/4' or fraction thereof in height.

Look for the Stanley trade  mark on the face of the butt.

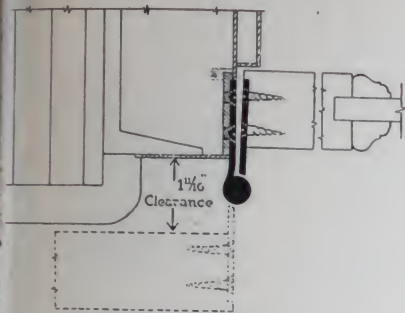
Stanley Wrought Bronze Metal Template (Steel Bushed) Butts

Polished and Highly Finished

IVE KNUCKLES

LOOSE PIN

BALL TIPS



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



Cut open to
show Steel Bushings



No. 194 (4 1/2" x 4 1/2")
One Quarter Full Size

For Wood Doors with Pressed Steel Jambs

No. 194

Designed for use on interior wood doors with pressed steel jambs used moderately where the ball bearing feature is not desired.

Made of bronze, brass, and white bronze metal, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in pressed steel jambs to similar template.

Equipped with steel bushings which extend the entire length of each knuckle, preventing wear at the joints. However, their wearing qualities should not be compared with Stanley ball bearing butts.

The ball tip has squared shoulders fitting flush with the barrel of the butt. The loose pin has the Stanley non-rising feature.

Inner edges of leaves are beveled to make close fitting joints.

Class No. 194 is stamped on the back of the butt.

For wood doors with wood jambs use; No. 175 Page 16

How to Specify:


No. 194

All interior wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought bronze metal template (steel bushed) butts (Stanley No. 194 or approved equal). To be . . . inches high and sufficient width to clear trim.

Doors shall have one butt for each 2 1/2' or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
194	3 x 3	* 1/2 x 10-24	6	13 oz.	.092
	3 1/2 x 3 1/2	1/2 x 10-24	6	1 lb. 5 oz.	.123
	4 x 4	1/2 x 12-24	8	1 lb. 13 oz.	.130
	4 1/2 x 4 1/2	1/2 x 12-24	8	2 lbs. 4 oz.	.134
	5 x 5	1/2 x 12-24	8	3 lbs. 4 oz.	.146
	6 x 6	1/2 x 1/4-20	10	5 lbs. 3 oz.	.160
		* No. 8 British Head			

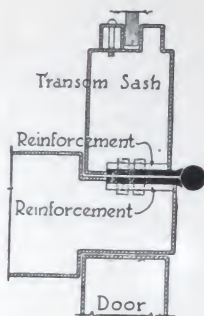
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Bronze Metal Template Transom Butts

Finely Finished

FIVE KNUCKLES

FAST PI



Scale: One Quarter Full Size



No. 196½ (3¼" x 3¼")
One Quarter Full Size

For Hollow Metal Transoms or Wood Transoms with Pressed Steel Frames

No. 196½

Designed for use on hollow metal transoms or wood transoms with pressed steel frames.

Butts and pins are made of bronze, brass and white bronze metal, toughened and hardened by cold rolling. The barrel of the butt is polished, and the surface of the leaves are buffed.

Inner edges of leaves are beveled to make close fitting joints.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal transoms and frames to similar template.

Class No. 196½ is stamped on the back of the butt.

For wood transoms with wood frames use;
No. 192½ Page 17


DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
196½	3 x 3	½ x 10-24	6	14 oz.	.092
	3½ x 3½	½ x 10-24	6	1 lb. 5 oz.	.123
	4 x 4	½ x 12-24	8	1 lb. 12 oz.	.130
		*No. 8 British Head			

How to Specify:

No. 196½

All exterior or interior hollow metal transoms (specify which) or wood transoms with pressed steel frames unless otherwise noted, shall be equipped with wrought bronze metal template fast pin transom butts (Stanley No. 196½ or approved equal) of proper size to suit details.

Look for Stanley trade  mark on the butt.

STANLEY

Wrought Steel

TEMPLATE BUTTS

*for Hollow Metal Doors or Wood
Doors with Pressed Steel Jambs*



All manufacturers of hollow metal doors and pressed steel jambs have been furnished with actual templates and blueprints of all Stanley Template Butts.

When Stanley Template Butts are to be used it is only necessary to specify that doors and jambs shall be drilled for Stanley Template Butt No. (state class number and size.)

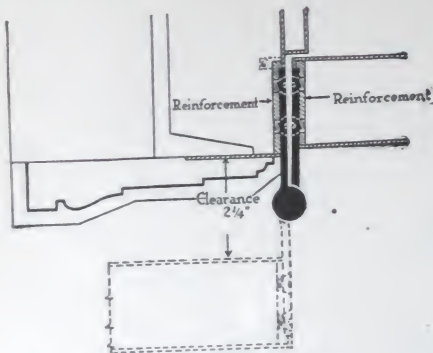
Stanley Extra Heavy Wrought Steel Template Ball Bearing Butt

Polished and Heavily Plated

FIVE KNUCKLES

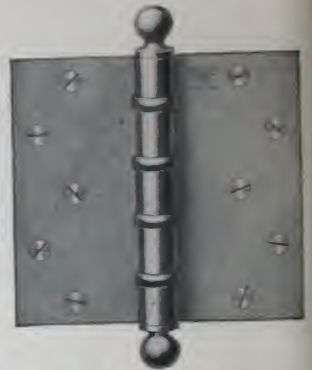
LOOSE PIN

BALL TIPS



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB168 (6" x 6")
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambos

No. BB168 (Extra Heavy)

Designed for use on interior hollow metal doors or wood doors with pressed steel jambos where high frequency of service is expected, such as doors in office buildings, public buildings and similar buildings. Also for exterior doors where a bronze metal butt is not desired.

Made of extra heavy wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template, so that they will exactly match screw holes drilled in metal doors and jambos to similar template.

Equipped with **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise. Size 5 x 5 and smaller have two ball bearing washers, larger sizes have four.

Butts are polished, and copper plated before receiving final plated finish. This process insures a lasting high finish.

The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

Inner edges of leaves are beveled to make close fitting joints.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

Class No. BB168 is stamped on the back of the butt.

For wood doors with wood jambos use; No. BB250
Page 22

How to Specify:

No. BB168

All interior hollow metal doors or wood doors with pressed steel jambos unless otherwise noted shall be equipped with extra heavy wrought steel template ball bearing butts with visible non-detachable washers (Stanley No. BB168 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each 2 1/2' or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB168	4 x 4	1/2 x 12-24	8	2 lbs. 8 oz.	.170
	4 1/2 x 4 1/2	1/2 x 12-24	8	3 lbs.	.180
	5 x 5	1/2 x 12-24	8	3 lbs. 13 oz.	.190
	6 x 6	1/2 x 1/4-20	10	6 lbs. 4 oz.	.203
	6 x 8	1/2 x 1/4-20	10	7 lbs. 5 oz.	.203
	8 x 8	1/2 x 1/4-20	16	9 lbs. 8 oz.	.203

Look for the Stanley trade  mark on the face of the butt.

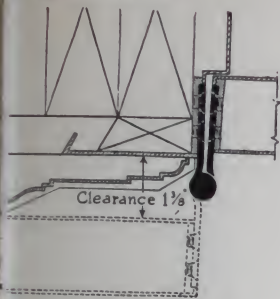
Stanley Wrought Steel Template Ball Bearing Butts

Polished and Heavily Plated

LOOSE PIN

BALL TIPS

FILE KNUCKLES



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB174 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB174

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs where the regular weight steel ball bearing butt is desired.

Made of wrought steel, toughened and hardened and cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from separating at the joints and insure that doors will operate smoothly and without noise.

Butts are polished, and copper plated before giving final plated finish. This process insures a high finish.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and lubricating features. The shoulders of the tips fit with the barrel of the butt.

Inner edges of leaves are beveled to make close fitting joints.

Class No. BB174 is stamped on the back of the

Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.

For wood doors with wood jambs use; No. BB239 Page 23

How to Specify:

No. BB174

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel template ball bearing butts with visible non-detachable washers (Stanley No. BB174 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be polished and heavily plated, with inner edges of leaves beveled.

Doors shall have one butt for each $2\frac{1}{4}'$ or fraction thereof in height.

TA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB174	3 x 3	* $\frac{1}{2} \times 10-24$	6	14 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2} \times 10-24$	6	1 lb. 5 oz.	.123
	4 x 4	$\frac{1}{2} \times 12-24$	8	1 lb. 12 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$\frac{1}{2} \times 12-24$	8*	2 lbs. 4 oz.	.134
	5 x 5	$\frac{1}{2} \times 12-24$	8	3 lbs.	.146
	6 x 6	$\frac{1}{2} \times \frac{1}{4}-20$	10	4 lbs. 8 oz.	.160
* No. 8 British Head					

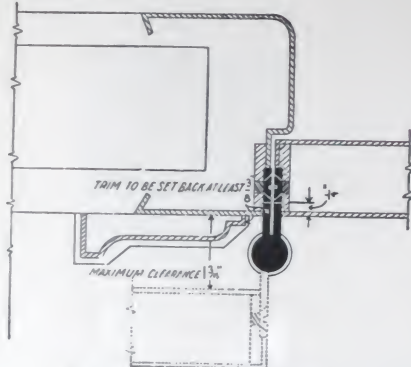
Look for the Stanley trade **STANLEY** mark on the face of the butt.



Stanley Wrought Steel Template Ball Bearing Paumelle

Polished and Heavily Plated

LOOSE JOINT



Scale: One Quarter Full Size



No. BB141 (6") L. H.
One Quarter Full Size

SPECIFY H



Showing No. BB141 at
Knuckle only is visible

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB141

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs of hotels, office buildings, public buildings, hospitals and similar buildings. They meet the requirements where it is desired to show the minimum of hardware or where a departure from the conventional type of butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with a **Stanley Non-detachable** ball bearing washer which prevents the paumelles from wearing at the joint and insures that doors will operate easily and without noise.

Paumelles are polished, and copper plated before receiving final plated finish. This process insures a lasting high finish.

Size 5" on $1\frac{3}{8}$ " door gives a maximum clearance of $1\frac{1}{4}$ ".

Size 6" on $1\frac{3}{4}$ " door gives a maximum clearance of $1\frac{3}{4}$ ".

Class No. BB141 is stamped on the back of the paumelle.

For wood doors with wood jambs use;
No. BB201 Page 24

DATA

Class Nos.	Thickness of Door	Size Open (Inches)	Width inside of Leaves Open (Inches)	Width of Leaves (Inches)	No. of Screw Holes	Size of Machine Screws	Weight per pair without Screws	Gauge of Metal
BB141-5"	For doors $1\frac{3}{8}$ " in thickness and under	5 x $3\frac{1}{4}$	$1\frac{3}{4}$	$\frac{3}{4}$	8	$\frac{1}{2}$ x 10-24	1 lb. 4 oz.	.169
BB141-6"	For doors $1\frac{3}{4}$ " in thickness and over	6 x $3\frac{7}{8}$	$2\frac{1}{4}$	$1\frac{1}{16}$	8	$\frac{1}{2}$ x 12-24	1 lb. 12 oz.	.203

Not reversible, specify hand.

Look for the Stanley trade  mark on the face of the paumelle.

How to Specify:

No. BB141

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel template ball bearing paumelles with a visible non-detachable washer (Stanley No. BB141 or approved equal). Paumelles shall be polished and heavily plated.

Size 5" for doors $1\frac{3}{8}$ " in thickness and under.

Size 6" for doors $1\frac{3}{4}$ " in thickness and over.

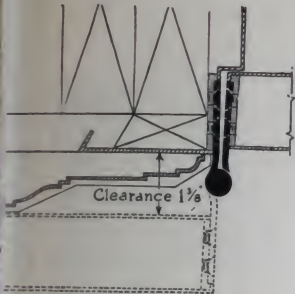
Doors shall have one paumelle for each $2\frac{1}{2}$ ' or fraction thereof in height.

Stanley Wrought Steel Template Ball Bearing Hospital Butts

Polished and Heavily Plated

SEE KNUCKLES

FAST PIN



For Table of
Clearances
See Page 6



No. BB197 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

Scale: One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB197

Designed by The Stanley Works for use on interior hollow metal doors or wood doors with pressed steel jambs of institutions, hospitals, hotels, schools, colleges, and similar buildings.

The ends of the barrel are rounded making it possible to attach ropes, wearing apparel, etc. Butts easily kept free from dust and dirt. Ideal for buildings where special emphasis is put upon sanitation.

Made of wrought steel, toughened and hardened cold rolling.

Screw holes are located accurately to template, so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

Butts are polished, and copper plated before receiving final plated finish. This process insures a bright high finish.

Inner edges of leaves are beveled to make close fitting joints.

Class No. BB197 is stamped on the back of the butt.

For wood doors with wood jambs use;
No. BB237 Page 25

How to Specify:


No. BB197

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel template fast pin ball bearing hospital butts with visible washers. (Stanley No. BB197 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB197	3 x 3	$\frac{1}{2} \times 10-24$	6	12 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2} \times 10-24$	6	1 lb. 5 oz.	.123
	4 x 4	$\frac{1}{2} \times 10-24$	8	1 lb. 12 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$\frac{1}{2} \times 12-24$	8	2 lbs.	.134
	5 x 5	$\frac{1}{2} \times 12-24$	8	2 lbs. 12 oz.	.146
	6 x 6	$\frac{1}{2} \times \frac{1}{4}-20$	10	4 lbs. 5 oz.	.160
	*No. 8 British Head				

Look for the Stanley trade  mark on the face of the butt.

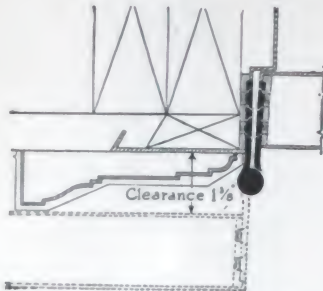
Stanley Wrought Steel Template Ball Bearing Butts

Planished and Plated

FIVE KNUCKLES

LOOSE PIN

BALL TIP



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB179 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB179

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs where a good practical steel ball bearing butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

Class No. BB179 is stamped on the back of the butt.

For wood doors with wood jambs use; No. BB241 Page 27

How to Specify:

No. BB179

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel template ball bearing butts with visible non-detachable washers (Stanley No. BB179 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall be planished and plated.

Doors shall have one butt for each $2\frac{3}{4}'$ or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB179	3 x 3	$\frac{1}{2}'' \times 10-24$	6	14 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2}'' \times 10-24$	6	1 lb. 5 oz.	.123
	4 x 4	$\frac{1}{2}'' \times 12-24$	8	1 lb. 12 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$\frac{1}{2}'' \times 12-24$	8	2 lbs. 4 oz.	.134
	5 x 5	$\frac{1}{2}'' \times 12-24$	8	3 lbs.	.146
	6 x 6	$\frac{1}{2}'' \times \frac{1}{4}-20$	10	4 lbs. 8 oz.	.160
		*No. 8 British Head			

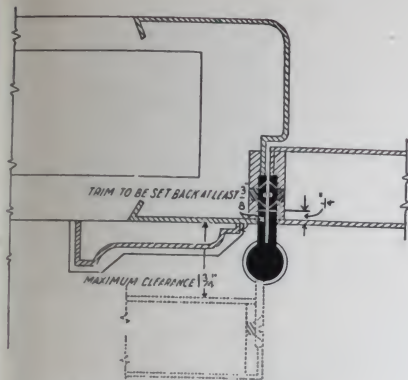
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Steel Template Ball Bearing Paumelles

LOOSE JOINT

For Painting

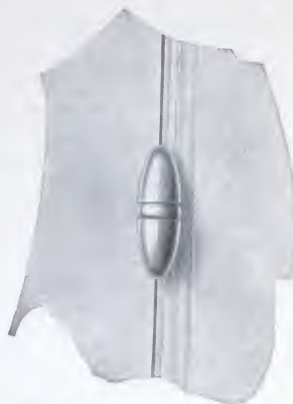
SPECIFY HAND



Scale: One Quarter Full Size



No. BB140 (6") L. H.
One Quarter Full Size



Showing No. BB140 applied
Knuckle only is visible

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB140

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs of hotels, office buildings, public buildings, hospitals and similar buildings, where paumelles are to be finished to match the doors and trim. They meet the requirements where it is desired to show the minimum of hardware or where a departure from the conventional type of butt is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with a **Stanley Non-detachable** ball bearing washer which prevents the paumelles from wearing at the joint and insures that doors will operate easily and without noise.

Paumelles are furnished with a priming coat. White or colored paint can be applied to these paumelles without additional preparation. To match natural finished woodwork or stained woodwork, give the paumelles one ground coat, then varnish same as the woodwork.

When desired these paumelles can be furnished in Stanley Sherardized finish with priming coat.

Size 5" on 1 5/8" door gives a maximum clearance of 1 1/4".

Size 6" on 1 3/4" door gives a maximum clearance of 1 3/4".

Class No. BB140 is stamped on the back of the paumelle.

For wood doors with wood jambs use; No. BB200 Page 28

How to Specify:

No. BB140

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel template ball bearing paumelles with a visible non-detachable washer. (Stanley No. BB140 or approved equal). Paumelles shall have a priming coat, or sherardized with a priming coat for painting. (Specify which).

Size 5" for doors 1 5/8" in thickness and under.

Size 6" for doors 1 3/4" in thickness and over.

Doors shall have one paumelle for each 2 1/2" or fraction thereof in height.

DATA

Class Nos.	Thickness of Door	Size Open (Inches)	Width inside of Leaves Open (Inches)	Width of Leaves (Inches)	No. of Screw Holes	Size of Machine Screws	Weight per pair without Screws	Gauge of Metal
BB140-5"	For doors 1 5/8" in thickness and under	5 x 3 1/4	1 3/4	3/4	8	1/2 x 10-24	1 lb. 4 oz.	.169
BB140-6"	For doors 1 3/4" in thickness and over	6 x 3 7/8	2 1/4	1 13/16	8	1/2 x 12-24	1 lb. 12 oz.	.203

Not reversible, specify hand.

Look for the Stanley trade **STANLEY** mark on the face of the paumelle.

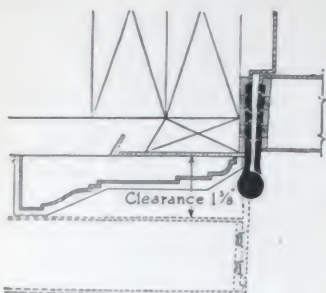


Stanley Wrought Steel Template Ball Bearing Butts

FIVE KNUCKLES

LOOSE PIN

BUTTON TIPS



Scale: One Quarter Full Size

For Painting

For Table of
Clearances
See Page 6



No. BB145 ($4\frac{1}{2}$ " x $4\frac{1}{2}$ "
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB145

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs of office buildings, public buildings, hotels, and similar buildings where butts are to be finished to match the doors and trim.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The button tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The tips fit flush with the barrel of the butt.

The barrel of the butt is ground to give a uniform appearance. The inner edges of the leaves are milled back on a bevel, allowing sufficient clearance to prevent the paint from being scraped off the barrel of the butt when the door is operated.

Butts are furnished with a priming coat. White or colored paint can be applied to these butts without additional preparation. To match natural finished woodwork or stained woodwork, give the butts one ground coat, then varnish same as the woodwork.

When desired, these butts can be furnished in Stanley Sherardized finish without priming coat.

Class No. BB145 is stamped on the back of the butt.

For wood doors with wood jambs use; No. BB235
Page 29

How to Specify:

No. BB145

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel template ball bearing butts with visible non-detachable washers (Stanley No. BB145 or approved equal). To be . . . inches high and of sufficient width to clear trim. Inner edges of leaves shall be milled back on a bevel to clear for paint. Butts shall have a priming coat or sherardized finish. (Specify which.)

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB145	3 x 3	$\frac{1}{2}$ x 10-24	6	14 oz.	.092
	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{1}{2}$ x 10-24	6	1 lb. 5 oz.	.123
	4 x 4	$\frac{1}{2}$ x 12-24	8	1 lb. 12 oz.	.130
	$4\frac{1}{2}$ x $4\frac{1}{2}$	$\frac{1}{2}$ x 12-24	8	2 lbs. 4 oz.	.134
	5 x 5	$\frac{1}{2}$ x 12-24	8	3 lbs.	.146
	6 x 6	$\frac{1}{2}$ x 14-20 * No. 8 British Head	10	4 lbs. 8 oz.	.160

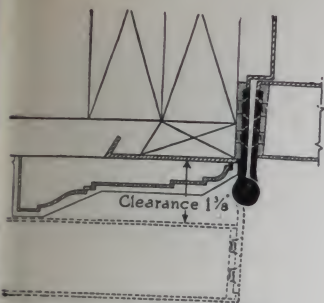
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Steel Template Ball Bearing Butts

FIVE KNUCKLES

LOOSE PIN For Painting

BUTTON TIPS



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB146 ($4\frac{1}{2}'' \times 4\frac{1}{2}''$)
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB146

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs of office buildings, public buildings, hotels, and similar buildings where butts are to be finished to match the doors and trim.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The button tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The tips fit flush with the barrel of the butt.

The inner edges of the leaves are milled back, allowing sufficient clearance to prevent the butts from being scraped off the barrel of the butt when the door is operated.

Butts are furnished with a priming coat. White or colored paint can be applied to these butts without additional preparation. To match natural finished woodwork or stained woodwork, give the butts one ground coat, then varnish same as the woodwork.

Class No. BB146 is stamped on the back of the butt.

For wood doors with wood jambs use;
No. BB242 Page 30

How to Specify:


No. BB146

All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel template ball bearing butts with visible non-detachable washers (Stanley No. BB146 or approved equal). To be . . . inches high and of sufficient width to clear trim. Inner edges of leaves shall be milled back to clear for paint. Butts shall have a priming coat or sherardized finish. (Specify which.)

Doors shall have one butt for each $2\frac{1}{2}'$ or fraction thereof in height.

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB146	3 x 3	$\frac{1}{2} \times 10-24$	6	14 oz.	.092
	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2} \times 10-24$	6	1 lb. 5 oz.	.123
	4 x 4	$\frac{1}{2} \times 12-24$	8	1 lb. 12 oz.	.130
	$4\frac{1}{2} \times 4\frac{1}{2}$	$\frac{1}{2} \times 12-24$	8	2 lbs. 4 oz.	.134
	5 x 5	$\frac{1}{2} \times 12-24$	8	3 lbs.	.146
	6 x 6	$\frac{1}{2} \times \frac{1}{4}-20$	10	4 lbs. 8 oz.	.160
		*No. 8 British Head			

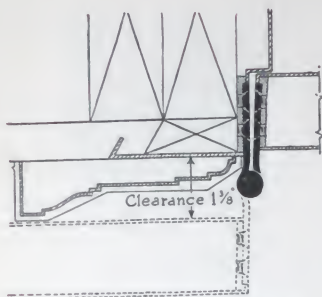
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Steel Template Ball Bearing Butts

LOOSE JOINT

BUTTON TIPS

SPECIFY HAND



Scale: One Quarter Full Size

For Painting

For Table of
Clearances
See Page 6



No. BB144 ($4\frac{1}{2}$ " x $4\frac{1}{2}$ ") R.H.
One Quarter Full Size

For Hollow Metal Doors or Wood Doors with Pressed Steel Jambs

No. BB144

Designed for use on interior hollow metal doors or wood doors with pressed steel jambs, where butts are to be finished to match the doors and trim.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with a **Stanley Non-detachable** ball bearing washer which prevents the butts from wearing at the joint and insures that doors will operate easily and without noise.

The tips fit flush with the barrel of the butt.

The barrel of the butt is ground to give a uniform appearance. The inner edges of the leaves are milled back on a bevel, allowing sufficient clearance to prevent the paint from being scraped off the barrel of the butt when the door is operated.

Butts are furnished with a priming coat. White or colored paint can be applied to these butts without additional preparation. To match natural finished woodwork or stained woodwork, give the butts one ground coat, then varnish same as the woodwork.

When desired, these butts can be furnished in Stanley Sherardized finish without priming coat.


Class No. BB144 is stamped on the back of the butt.

For wood doors with wood jambs use;
No. BB214 Page 31

DATA

Class No.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB144	3 x 3	$\frac{1}{2}$ x 10-24	6	14 oz.	.092
	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{1}{2}$ x 10-24	6	1 lb. 5 oz.	.123
	4 x 4	$\frac{1}{2}$ x 12-24	8	1 lb. 12 oz.	.130
	$4\frac{1}{2}$ x $4\frac{1}{2}$	$\frac{1}{2}$ x 12-24	8	2 lbs. 4 oz.	.134
		*No. 8 British Head			

Not reversible, specify hand.

Look for the Stanley trade  mark on the face of the butt.

How to Specify:

No. BB144

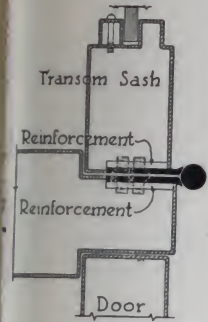
All interior hollow metal doors or wood doors with pressed steel jambs unless otherwise noted shall be equipped with wrought steel loose joint template ball bearing butts with a visible non-detachable washer. Inner edges of leaves shall be milled back on a bevel to clear for paint (Stanley No. BB144 or approved equal). To be . . . inches high and of sufficient width to clear trim. Butts shall have a priming coat or sherardized finish. (Specify which.)

Doors shall have one butt for each $2\frac{1}{2}$ ' or fraction thereof in height.

Stanley Wrought Steel Template Transom Butts

VE KNUCKLES

FAST PIN



Nos. 176-178 ($3\frac{1}{2}'' \times 3\frac{1}{4}''$)
One Quarter Full Size

For Hollow Metal Transoms or Wood Transoms with Pressed Steel Frames

- No. 176 Polished and Heavily Plated
No. 178 Planished and Plated

Designed for use on interior hollow metal transoms or wood transoms with pressed steel frames.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template that they will exactly match screw holes drilled in metal transoms and frames to similar template.

No. 176 butts are polished and copper plated before receiving final plated finish. This process insures lasting high finish. Inner edges of leaves are beveled to make close fitting joints.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

Class number is stamped on the back of the butt.

For wood transoms with wood frames use;

No. 291 $\frac{1}{2}$ or No. 291 Page 3433

How to Specify:

No. 176

All interior hollow metal transoms or wood transoms with pressed steel frames unless otherwise noted shall be equipped with wrought steel template fast pin transom butts (Stanley No. 176 or approved equal) of proper size to suit details. Butts shall be polished and plated.

No. 178

All interior hollow metal transoms or wood transoms with pressed steel frames unless otherwise noted shall be equipped with wrought steel template fast pin transom butts (Stanley No. 178 or approved equal) of proper size to suit details. Butts shall be planished and plated.

DATA

Class Nos.	Size Open (Inches)	Size of Machine Screws	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
176 }	3 x 3	* $\frac{1}{2}$ x 10-24	6	11 oz.	.092
178 }	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{1}{2}$ x 10-24	6	13 oz.	.123
	4 x 4	$\frac{1}{2}$ x 12-24	8	1 lb. 4 oz.	.130
		*No. 8 British Head			

Look for Stanley trade **STANLEY** mark on the butt.

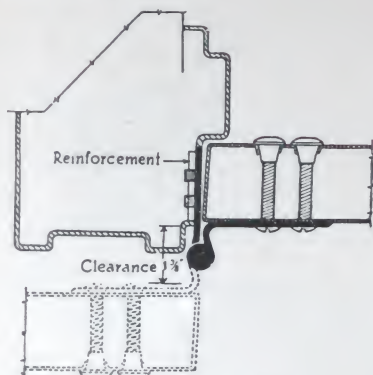


Stanley Extra Heavy Wrought Steel Half Surface Template Ball Bearing Butts

Polished and Heavily Plated
LOOSE PIN

FIVE KNUCKLES

BALL TH



Scale: One Quarter Full Size



Section Showing Application of
Machine Screw and Grommet
Nut to a Kalamein Door



See Table for Measurements



No. BB163 (3'
One Quarter Full

For Kalamein Doors with Pressed Steel Jambs

No. BB163 (Extra Heavy)

Designed for use on kalamein or metal covered doors with pressed steel jambs where an extra heavy half surface butt is required. Can also be used on kalamein doors with kalamein jambs. Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template, so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

Butts are polished, and copper plated before receiving final plated finish. This process insures a lasting high finish.

The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

Inner edges of leaves are beveled to make close fitting joints.

Furnished with flat head machine screws for jamb leaf and oval head machine screws (for bolting through the door) with grommet nuts for door leaf.

In bolting the butt to the kalamein door, the grommet nuts draw the metal tightly over the wood core preventing buckling of the metal. They are very easily applied and give a neat finished appearance.

Butts are made reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Door leaf and jamb leaf are measured from center of pin to outer edge of leaf. Offset is measured from back of door leaf to center of pin.

Jamb leaf of this butt will fit the sinkage and screw hole locations are the same as the full mortise template butt of corresponding size and gauge of metal.

Class No. BB163 is stamped on the back of the butt.

How to Specify:

No. BB163

All kalamein or metal covered doors with hollow metal or kalamein jambs unless otherwise noted shall be equipped with extra heavy wrought steel half surface template ball bearing butts with visible non-detachable washers (Stanley No. BB163 or approved equal) of proper size to suit details. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each 2½' or fraction thereof in height.

DATA

Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Size of FH Machine Screws for Jamb Leaf	Size of OH Machine Screws for Door Leaf	No. of Screw Holes in Jamb Leaf	No. of Screw Holes in Door Leaf	Weight per pair without Screws	Gauge of Metal
BB163	4½	2½	2⅞	1	½x12-24	2¼x¼-20	4	3	3 lbs. 11 oz.	.180
	5	2½	2⅞	1	½x12-24	2¼x¼-20	4	4	4 lbs. 10 oz.	.190

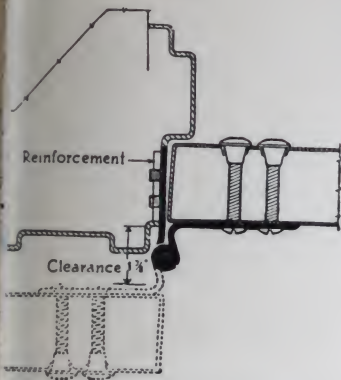
Specify thickness of door. When to be used with kalamein jambs specify wood screws for jamb leaf.

Look for the Stanley trade **STANLEY** mark on the face of the butt.



Stanley Wrought Steel Half Surface Template Ball Bearing Hospital Butts Polished and Heavily Plated

VE KNUCKLES



Scale: One Quarter Full Size



Section Showing Application of Machine Screw and Grommet Nut to a Kalamein Door



See Table for Measurements

FAST PIN



No. BB137 (5")
One Quarter Full Size

For Kalamein Doors with Pressed Steel Jambs

BB137

Designed for use on kalamein doors with pressed steel jambs in institutions, hospitals, and similar buildings. Can also be used on kalamein doors with kalamein jambs.

The ends of the barrel are rounded making it impossible to catch ropes, wearing apparel, etc. Butts are easily kept free from dirt. Ideal for buildings where special emphasis is put on sanitation.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template, so that they exactly match screw holes drilled in metal doors and jambs to our template.

Equipped with two Stanley ball bearing washers, which prevent the butts from wearing at the joints and insure that doors operate easily and without noise.

Butts are polished and copper plated before receiving finished finish. This process insures a lasting high finish.

Inner edges of leaves are beveled to make close fitting joints.

Furnished with flat head machine screws for jamb leaf and flat head machine screws (for bolting through door) with grommet nuts for door leaf.

In bolting the butt to the kalamein door the grommet nuts are placed over the metal tightly over the wood core preventing buckling of metal. They are very easily applied and give a neat finished appearance.

Butts are reversible for right or left hand doors.

Door leaf and jamb leaf are measured from center of pin to outer edge of leaf. Offset is measured from back of door leaf to center of pin.

Jamb leaf of this butt will fit sinkage and screw hole locations the same as the full mortise template butt of corresponding size and gauge of metal.

Class No. BB137 is stamped on the back of the butt.

How to Specify:


No. BB137

All kalamein or metal covered doors with pressed steel or kalamein jambs unless otherwise noted shall be equipped with wrought steel half surface template ball bearing hospital butts with visible washers (Stanley No. BB137 or approved equal) of proper size to suit details. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each 2½' or fraction thereof in height.

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Size of FH Machine Screws for Jamb Leaf	Size of OH Machine Screws for Door Leaf	No. of Screw Holes in Jamb Leaf	No. of Screw Holes in Door Leaf	Weight per pair without Screws	Gauge of Metal
BB137	4½ 5	2¼ 2½	2⅞ 2⅞	¾ 1	½x12-24 ½x12-24	2x¼-20 2x¼-20	4 4	3 4	2 lbs. 3 oz 2 lbs. 14oz	.134 .146

Specify thickness of door. When to be used with kalamein jambs, specify wood screws for jamb leaf.

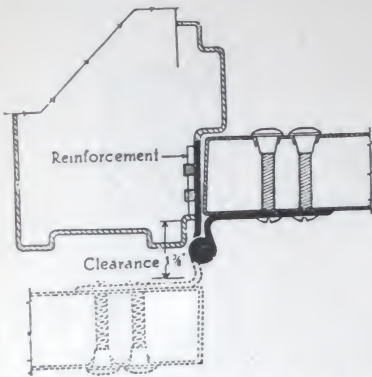
Look for the Stanley trade  mark on the face of the butt.

Stanley Wrought Steel Half Surface Template Ball Bearing Butt Polished and Heavily Plated

FIVE KNUCKLES

LOOSE PIN

BALL TIP



Section Showing Application of Machine Screw and Grommet Nut to a Kalamein Door



See Table for Measurements



No. BB172 (5")
One Quarter Full Size

Scale: One Quarter Full Size

For Kalamein Doors with Pressed Steel Jambs

No. BB172

Designed for use on kalamein or metal covered doors with pressed steel jambs. Can also be used on kalamein doors with kalamein jambs.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template, so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

Butts are polished, then copper plated before receiving final plated finish. This process insures a lasting high finish.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

Inner edges of leaves are beveled to make close fitting joints. Furnished with flat head machine screws for jamb leaf and oval head machine screws (for bolting through the door) with grommet nuts for door leaf.

In bolting the butt to the kalamein door the grommet nuts draw the metal tightly over the wood core preventing buckling of the metal. They are very easily applied and give a neat finished appearance.

Butts are made reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Door leaf and jamb leaf are measured from center of pin to outer edge of leaf. Offset is measured from back of door leaf to center of pin.

Jamb leaf of this butt will fit the sinkage and screw hole locations are the same as the full mortise template butt of corresponding size and gauge of metal.

Class number BB172 is stamped on the back of the butt.

Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.

DATA

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Size of FH Machine Screws for Jamb Leaf	Size of OH Machine Screws for Door Leaf	No. of Screw Holes in Jamb Leaf	No. of Screw Holes in Door Leaf	Weight per pair without Screws	Gauge of Metal
BB172	4½	2¼	2⅝	¾	½x12-24	2 x ¼-20	4	3	3 lbs.	.134
	5	2½	2⅞	1	½x12-24	2 x ¼-20	4	4	4 lbs.	.146

Specify thickness of door. When to be used with kalamein jambs specify wood screws for jamb leaf.

Look for the Stanley trade **STANLEY** mark on the face of the butt.



How to Specify:

No. BB172

All kalamein or metal covered doors with pressed steel or kalamein jambs unless otherwise noted shall be equipped with wrought steel half surface template ball bearing butts with visible non-detachable washers (Stanley No. BB172 or approved equal) of proper size to suit details. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each 2½' or fraction thereof in height.

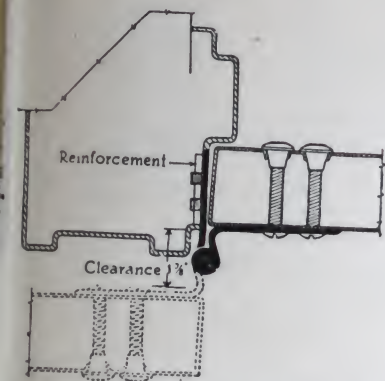
Stanley Wrought Steel Half Surface Template Ball Bearing Butts

Planished and Plated

FIVE KNUCKLES

LOOSE PIN

BALL TIPS



Scale: One Quarter Full Size



Section Showing Application of Machine Screw and Grommet Nut to a Kalamein Door



See Table for Measurements

No. BB173 (5")
One Quarter Full Size

For Kalamein Doors with Pressed Steel Jambs

No. BB173

Designed for use on kalamein or metal covered doors with pressed steel jambs.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template, so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two Stanley Non-detachable ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features.

Furnished with flat head machine screws for jamb leaf and oval head machine screws (for bolting through the door) with grommet nuts for door leaf.

In bolting the butt to the kalamein door the grommet nuts draw the metal tightly over the wood core preventing buckling of the metal. They are very easily applied and give a neat finished appearance.

Butts are made reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Door leaf and jamb leaf are measured from center of pin to outer edge of the leaf. Offset is measured from back of door leaf to center of pin.

Jamb leaf of this butt will fit the sinkage and screw hole locations are the same as the full mortise template butt of corresponding size and gauge of metal.

Class number BB173 is stamped on the back of the butt.

For kalamein doors with kalamein jambs use; No. BB165 Page 32, 60

Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.

How to Specify:

No. BB173

All kalamein or metal covered doors with pressed steel or kalamein jambs unless otherwise noted shall be equipped with wrought steel half surface template ball bearing butts with visible non-detachable washers (Stanley No. BB173 or approved equal) of proper size to suit details. Butts shall be planished and plated.

Doors shall have one butt for each 2 1/2' or fraction thereof in height.

No. BB173 For Painting

All kalamein or metal covered doors with pressed steel or kalamein jambs unless otherwise noted shall be equipped with wrought steel half surface template ball bearing butts with visible non-detachable washers (Stanley No. BB173 or approved equal) of proper size to suit details. Butts shall be sherardized and the inner edges of the leaves milled for painting.

Doors shall have one butt for each 2 1/2' or fraction thereof in height.

DATA

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Size of FH Machine Screws for Jamb Leaf	Size of OH Machine Screws for Door Leaf	No. of Screw Holes in Jamb Leaf	No. of Screw Holes in Door Leaf	Weight per pair without Screws	Gauge of Metal
BB173	4 1/2	2 1/4	2 3/8	3/4	1/2 x 12-24	2 x 1/4-20	4	3	3 lbs.	.134
	5	2 1/2	2 7/8	1	1/2 x 12-24	2 x 1/4-20	4	4	4 lbs.	.146

Specify thickness of door.

Look for the Stanley trade



mark on the face of the butt.

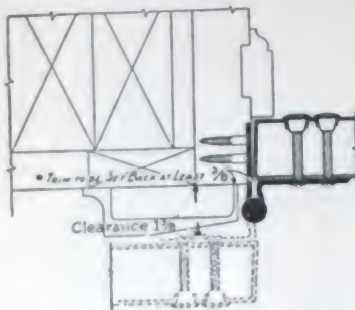
Stanley Wrought Steel Half Surface Ball Bearing Butts

Non-Template

FIVE KNUCKLES

LOOSE PIN

BALL TIPS



Scale: One Quarter Full Size



Section Showing Application of Machine Screw and Grommet Nut to a Kalamein Door



See Table for Measurements



Nos. BB165½ - BB165 (4")
One Quarter Full Size

For Kalamein Doors with Kalamein Jamb

No. BB165½ Polished and Plated

No. BB165 Planished and Plated

Designed for use only on kalamein or metal covered doors with kalamein jamb.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two Stanley Non-detachable ball bearing washers which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features.

Butts are made reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Furnished with flat head wood screws for jamb leaf and oval head machine screws with grommet nuts (for bolting through the door) for door leaf.

In bolting the butt to the kalamein door, the grommet nuts draw the metal tightly over the wood core, preventing buckling of the metal. They are very easily applied and give a neat finished appearance.

Door leaf and jamb leaf are measured from center of pin to outer edge of leaf. Offset is measured from back of door leaf to center of pin.

Class number is stamped on the back of the butt.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

For kalamein doors with pressed steel jamb use;
Template Butt No. BB172 or BB173 Pages 58 or 60.

For kalamein doors with channel iron jamb use;
Template Butt No. BB170 or BB171 Pages 62 or 63

How to Specify:

No. BB165½

All kalamein doors with kalamein jamb unless otherwise noted shall be equipped with wrought steel half surface ball bearing butts with visible non-detachable washers (Stanley No. BB165½ or approved equal) of proper size to suit details. Butts shall be polished and plated.

Doors shall have one butt for each 2½' or fraction thereof in height.

No. BB165

All kalamein doors with kalamein jamb unless otherwise noted shall be equipped with wrought steel half surface ball bearing butts with visible non-detachable washers (Stanley No. BB165 or approved equal) of proper size to suit details. Butts shall be planished and plated.

Doors shall have one butt for each 2½' or fraction thereof in height.

DATA

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Size of Wood Screws for Jamb Leaf	Size of OH Machine Screws for Door Leaf	No. of Screw Holes in Jamb Leaf	No. of Screw Holes in Door Leaf	Weight per pair without screws	Gauge of Metal
BB165½	3½	1¾	2½	1¼	1 x 9	2 x 10-24	3	3	1 lb. 8 oz.	.122
	4	2	2¾	1¼	1 x 10	2 x 10-24	4	4	1 lb. 12 oz.	.130
BB165	4½	2¼	2¾	¾	1¼ x 10	2 x 10-24	4	5	2 lbs. 5 oz.	.134
	5	2½	2¾	1	1¼ x 12	2 x 12-24	5	5	3 lbs.	.146

State thickness of door when ordering.

Look for Stanley trade  mark on the butt.

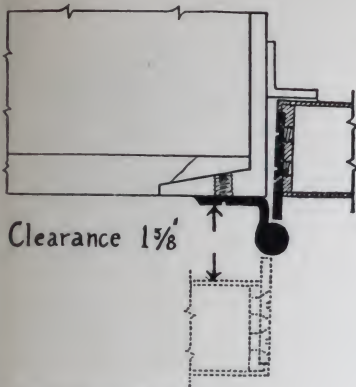
Stanley Wrought Steel Half Mortise Template Ball Bearing Butts

Polished and Heavily Plated

FIVE KNUCKLES

LOOSE PIN

BALL TIPS



See Table for Measurements



No. BB167 $\frac{1}{2}$ (5")
One Quarter Full Size

Scale: One Quarter Full Size

For Hollow Metal Doors with Channel Iron Jambs

No. BB167 $\frac{1}{2}$

Designed for use on hollow metal doors with channel iron jambs.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

Butts are polished and copper plated before receiving final plated finish. This process insures a lasting high finish.

Inner edges of leaves are beveled to make close fitting joints.

Butts are made reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Furnished with flat head machine screws for both leaves.

Door leaf and jamb leaf are measured from center of pin to outer edge of leaf. Offset is measured from back of jamb leaf to center of pin.

Door leaf of this butt will fit the sinkage and screw hole locations are the same as the full mortise template butt of corresponding size and gauge of metal.

Class No. BB167 $\frac{1}{2}$ is stamped on the back of the butt.

Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.

How to Specify:

No. BB167 $\frac{1}{2}$

All hollow metal doors with channel iron jambs unless otherwise noted shall be equipped with wrought steel half mortise template ball bearing butts with visible non-detachable washers (Stanley No. BB167 $\frac{1}{2}$ or approved equal) of proper size to suit details. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each $2\frac{1}{2}$ ' or fraction thereof in height.

DATA

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Jamb Leaf (C)	Size of FH Machine Screws for Jamb Leaf	Size of FH Machine Screws for Door Leaf	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB167 $\frac{1}{2}$	5	1 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{7}{8}$	$\frac{1}{2} \times \frac{1}{4}$ -20	$\frac{1}{2} \times 12$ -24	4 in each leaf	2 lbs. 8 oz.	.146

Look for the Stanley trade **STANLEY** mark on the face of the butt.



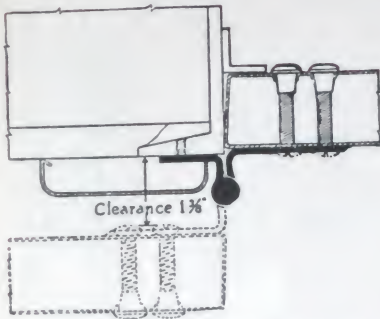
Stanley Wrought Steel Full Surface Template Ball Bearing Butt

Polished and Heavily Plated

FIVE KNUCKLES

LOOSE PIN

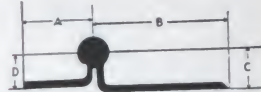
BALL TIP:



Scale: One Quarter Full Size



Section Showing Application
of Machine Screw and Grom-
met Nut to a Kalamein Door



See Table for Measurements



No. BB170 (5")
One Quarter Full Size

For Kalamein Doors with Channel Iron Jambs

No. BB170

Designed for use on kalamein or metal covered doors with channel iron jambs.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

Butts are polished and copper plated before receiving final plated finish. This process insures a lasting high finish.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

Inner edges of leaves are beveled to make close fitting joints.

Furnished with flat head machine screws for jamb leaf and oval head machine screws (for bolting through the door) with grommet nuts for door leaf.

In bolting the butt to the kalamein door the grommet nuts draw the metal tightly over the wood core preventing buckling of the metal. They are very easily applied and give a neat finished appearance.

Butts are made reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Door leaf and jamb leaf are measured from center of the pin to outer edge of leaf.

Offset is measured from back of jamb leaf and door leaf to center of pin.

Door leaf extends $\frac{1}{8}$ " beyond the jamb leaf allowing the door to set in $\frac{1}{8}$ " beyond the jamb.

Class number BB170 is stamped on the back of the butt.

[Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.]

DATA

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Offset of Jamb Leaf (Inches) (D)	Size of FH Machine Screws for Jamb Leaf	Size of OH Machine Screws for Door Leaf	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB170	4 1/2	1 1/2	2 3/16	1 1/16	1 3/16	1/2 x 12-24	2 x 1/4-20	3 in each leaf	2 lbs. 6 oz.	.134
	5	1 1/2	2 3/8	1	1 3/8	1/2 x 12-24	2 x 1/4-20	4 in each leaf	3 lbs. 12 oz.	.146

Specify thickness of door.

Look for the Stanley trade **STANLEY** mark on the face of the butt.

**How to Specify:****No. BB170**

All kalamein or metal covered doors with channel iron jambs unless otherwise noted shall be equipped with wrought steel full surface template ball bearing butts with visible non-detachable washers (Stanley No. BB170 or approved equal) of proper size to suit details. Butts shall be polished and heavily plated with inner edges of leaves beveled.

Doors shall have one butt for each 2 1/2' or fraction thereof in height.

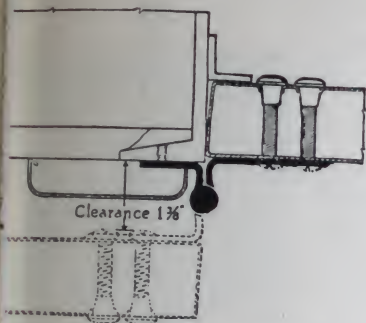
Stanley Wrought Steel Full Surface Template Ball Bearing Butts

Planished and Plated

FIVE KNUCKLES

LOOSE PIN

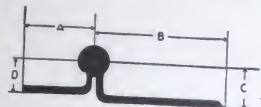
BALL TIPS



Scale: One Quarter Full Size



Section Showing Application of Machine Screw and Grommet Nut to a Kalamein Door



See Table for Measurements



No. BB171 (5")
One Quarter Full Size

For Kalamein Doors with Channel Iron Jambs

No. BB171

Designed for use on kalamein or metal covered doors with channel iron jambs.

Made of wrought steel, toughened and hardened by cold rolling.

Screw holes are located accurately to template so that they will exactly match screw holes drilled in metal doors and jambs to similar template.

Equipped with two Stanley Non-detachable ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The ball tip and pin are made of one piece of steel. The loose pin has the Stanley non-rising and self-lubricating features.

Furnished with flat head machine screws for jamb leaf and grommet nuts for door leaf.

In bolting the butt to the kalamein door the grommet nuts draw the metal tightly over the wood core preventing buckling of the metal. They are very easily applied and give a neat finished appearance.

Butts are made reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Door leaf and jamb leaf are measured from center of pin outer edge of leaf.

Offset is measured from back of jamb leaf and door leaf to center of pin.

Door leaf extends $\frac{1}{8}$ " beyond the jamb leaf allowing the door set in $\frac{1}{8}$ " beyond the jamb.

Class number BB171 is stamped on the back of the butt.

Where steel butts are to be exposed to dampness, specify that the butts shall be Stanley Sherardized before final plating.

How to Specify:

No. BB171

All kalamein or metal covered doors with channel iron jambs unless otherwise noted shall be equipped with wrought steel full surface template ball bearing butts with visible non-detachable washers (Stanley No. BB171 or approved equal) of proper size to suit details. Butts shall be planished and plated.

Doors shall have one butt for each $2\frac{1}{2}$ ' or fraction thereof in height.

No. BB171 For Painting

All kalamein or metal covered doors with channel iron jambs unless otherwise noted shall be equipped with wrought steel full surface template ball bearing butts with visible non-detachable washers (Stanley No. BB171 or approved equal) of proper size to suit details. Butts shall be sherardized and the inner edges of the leaves shall be milled for painting.

Doors shall have one butt for each $2\frac{1}{2}$ ' or fraction thereof in height.

ATA

Class No.	Size Length of Joint (Inches)	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Offset of Jamb Leaf (Inches) (D)	Size of FH Machine Screws for Jamb Leaf	Size of OH Machine Screws for Door Leaf	No. of Screw Holes	Weight per pair without Screws	Gauge of Metal
BB171	4½ 5	1½ 1½	2⅞ 2⅞	1⅞ 1	1⅞ ⅞	½x12-24 ½x12-24	2x¼-20 2x¼-20	3 in each leaf 4 in each leaf	2 lbs. 6 oz. 3 lbs. 12 oz.	.134 .146

Specify thickness of door.

Look for the Stanley trade **STANLEY** mark on the face of the butt.

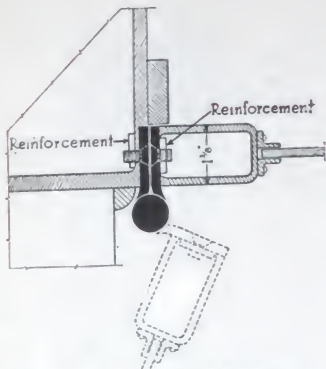


Stanley Extra Heavy Wrought Steel Ball Bearing Butts Plain Steel Without Screw Holes

FIVE KNUCKLES

LOOSE PIN

BALL TIP



Scale: One Quarter Full Size

For Table of
Clearances
See Page 6



No. BB851 (6" x 6")
One Quarter Full Size

For Metal or Glass Doors

No. BB851 (Extra Heavy)

Designed for use on heavy iron and glass exterior doors. Furnished without screw holes so they may be fitted in the shop to suit requirements.

Made of extra heavy wrought steel, toughened and hardened by cold rolling.

Equipped with four **Stanley Non-detachable** ball bearing washers, which prevent the butts from wearing at the joints and insure that doors will operate easily and without noise.

The loose pin has the Stanley non-rising and self-lubricating features. The shoulders of the tips fit flush with the barrel of the butt.

Inner edges of leaves are beveled to make close fitting joints.

Class No. BB851 is stamped on the back of the butt.

DATA

Class No.	Size Inches	Weight per pair
BB851	6 x 4	4 lbs. 8 oz.
	6 x 5	5 lbs. 4 oz.
	6 x 6	6 lbs.
	6 x 8	7 lbs. 8 oz.
	8 x 6	7 lbs. 10 oz.
	8 x 8	9 lbs. 8 oz.

How to Specify:

No. BB851

All iron or glass exterior doors shall be equipped with extra heavy wrought steel ball bearing butts with visible non-detachable washers. (Stanley No. BB851 or approved equal). To be . . . inches high and sufficient width to clear trim.

Butts to be fitted in the shop by the door manufacturer and made to suit conditions.

Doors shall have one butt for each 2½' or fraction thereof in height.

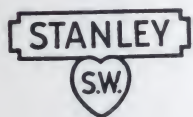
Look for the Stanley trade **STANLEY** mark on the face of the butt.



STANLEY

*Wrought Bronze, Brass
and Steel*

BOLTS



The STANLEY WORKS

New Britain, Conn., U. S. A.

New York Chicago San Francisco

Los Angeles Seattle

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Stanley Wrought Bronze and Wrought Steel Flush Bolts

Extension Type



Elevation
One Quarter
Full Size



Nos. 385-386
One Quarter
Full Size



Section
Scale: One Quarter
Full Size

The strike plate is self-centering and the hole is large enough to allow for any shrinkage of the door. The springs are made of strong, durable music wire.

Levers are made of wrought bronze.

Liberal screw holding power is provided, sufficient for heavy doors.

Furnished with rods 9, 12, 18 and 24 inches in length.

No. 385 Wrought Steel

No. 386 Wrought Bronze

Plate	$6\frac{1}{4}" \times 1\frac{1}{4}"$
Diameter of rod	$\frac{1}{4}"$
Square Bolt Head	$\frac{1}{2}"$
Strike Plate	$1\frac{1}{32}" \times 2"$
Guide Plate	$1\frac{1}{32}" \times 2\frac{3}{16}"$
Throw	$\frac{5}{8}"$

Furnished in all plated finishes.

Stanley Wrought Steel Flush Bolts



Elevation
One Quarter Size
9 Inch



No. 387-12 Inch
One Third Full Size



Section
One Quarter
9 Inch

No. 387

Can be applied to the edge or face of the door.

Equipped with an extra long bronze metal lever.

Strike plate is self-centering and the hole is large enough to take care of any shrinkage of the door.

Liberal screw holding power is provided, sufficient for heavy doors.

Made in lengths: 9, 12, 18 and 24 inches.

Width of plate	$1\frac{1}{4}"$
Lip extension	$1\frac{1}{2}"$
Depth of case	$1\frac{1}{16}"$
Square bolt head	$\frac{1}{2}"$
Diameter of rod	$\frac{1}{4}"$
Throw	$\frac{5}{8}"$

Furnished in all plated finishes.

Stanley Wrought Steel Flush Bolts



No. 393-6"



No. 395-6"



No. 397-6"

Scale: One Quarter Full Size



Section
Scale:
One Quarter
Size of 6 Inch

Section
Scale:
One Quarter
Size of 6 Inch

No. 393. Made in lengths: 6, 9, 12 and 18 inches.

Width of plate	$1\frac{1}{4}"$
Lip extension	$1\frac{5}{16}"$
Square bolt head	$\frac{1}{2}"$
Throw	$\frac{25}{32}"$

No. 395. Made in lengths: 6, 9 and 12 inches.

Width of plate	$1"$
Lip extension	$1\frac{5}{16}"$
Round bolt head	$\frac{1}{2}"$
Throw	$\frac{3}{4}"$

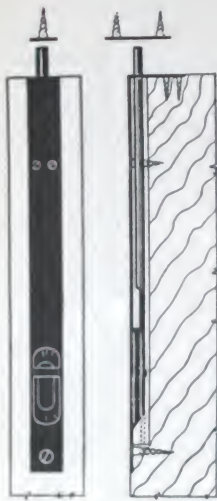
No. 397. Made in lengths: 3, 4 and 6 inches.

Size 3"	
Width of plate	$\frac{5}{8}"$
Lip extension	$1\frac{1}{16}"$
Round bolt head	$\frac{1}{4}"$
Throw	$\frac{1}{2}"$

Sizes 4" and 6"	
Width of plate	$1"$
Lip extension	$1\frac{1}{16}"$
Round bolt head	$\frac{3}{16}"$
Throw	$\frac{1}{4}"$

Furnished in all plated finishes.

Stanley Wrought Steel Flush Bolts



Elevation
Scale: One Quarter
Size of 9 Inch



No. 394-8"



No. 393 $\frac{1}{2}$ -9"



No. 396-9"

Scale: One Quarter Full Size



Elevation
Scale: One Quarter
Size of 9 Inch

Can be applied to the edge or face of the door.

No. 394. Made in lengths: 4, 6 and 8 inches.

Width of plate	$\frac{1}{2}$ "
Lip extension	$1\frac{1}{16}$ "
Round bolt head diameter	$\frac{3}{16}$ "
Throw	$\frac{1}{2}$ "

No. 393 $\frac{1}{2}$. Made in lengths: 6, 9, 12 and 18 inches.

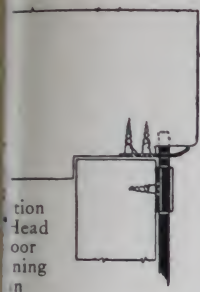
Width of plate	$\frac{3}{4}$ "
Lip extension	$1\frac{5}{16}$ "
Round bolt head diameter	$\frac{1}{4}$ "
Throw	$1\frac{3}{16}$ "

No. 396. Made in lengths: 6, 9 and 12 inches.

Width of plate	1"
Lip extension	$1\frac{1}{4}$ "
Square bolt head	$\frac{3}{8}$ "
Throw	1"

Furnished in all plated finishes.

Stanley Wrought Brass and Wrought Steel Surface Bolts For Casement Sash and French Doors



tion Head
oor
ning
in
ale: One Quarter Full
Size 9 Inch



Nos. 366 - 379



Nos. 367 - 381



Section at Head
Door opening out
Scale: One Quarter
Full Size 9 Inch

366 Wrought Brass

Made in lengths: 3, 4, 6 and 9 inches.

Rod (half round)	$\frac{3}{8}$ "
Length of guides	$\frac{5}{8}$ "
Width of guides	$1\frac{9}{32}$ "
Throw	1" except 3" which has $\frac{5}{8}$ "

No. 379 Wrought Steel.

Made in lengths: 3, 4, 6 and 9 inches.

Rod (half round)	$\frac{3}{8}$ "
Length of guides	$\frac{5}{8}$ "
Width of guides	$1\frac{9}{32}$ "
Throw	1" except 3" which has $\frac{5}{8}$ "

367 Wrought Brass.

Made in lengths: 4, 6, 9, 12 and 18 inches.

Rod (half round)	$\frac{1}{2}$ "
Length of guides	1"
Width of guides	$1\frac{1}{2}$ "
Throw	$1\frac{1}{4}$ "

No. 381 Wrought Steel.

Made in lengths: 4, 6, 9, 12 and 18 inches.

Rod (half round)	$\frac{1}{2}$ "
Length of guides	1"
Width of guides	$1\frac{1}{2}$ "
Throw	$1\frac{1}{4}$ "

All are furnished with two guides, one universal strike (No. 2), one angle strike (No. 3), and one flat strike (No. 1).

Furnished in all plated finishes.

[Where steel bolts are to be exposed to dampness, specify that the bolts shall be Stanley Sherardized before final plating.]

Strikes



No. 1
Flat



No. 2
Universal



No. 3
Angle

Stanley Wrought Steel Cremone Bolts

For French Doors and Casement Windows Opening In or Out



No. 377



No. 378

No. 377 with Cast Brass Knob. (U. S. Gov't Type 1027A)
 No. 378 with Solid Brass Lever Handle. (U. S. Gov't Type 1027A)

Length of case	5 1/4"
Width of case	1 3/8"
Width of guides	1 7/8"
Rod (half oval)	5/8"
Throw	3/4"



Section
 Window Opening Out
 Scale: One Eighth
 Full Size

Back plates fitting under the case and guides, prevent the rod from marring the surface of the wood.

All are furnished with two center guides, two end guides, two universal strikes (No. 2) and one flat strike (No. 1). Surface strike (No. 4) and angle strike (No. 3) furnished only when ordered.

When ordering, specify exact height of door or window and distance from bottom thereof to the center of knob or handle.

Furnished in all plated finishes.

[Where steel cremone bolts are to be exposed to dampness, specify that the bolts shall be Stanley Sherardized before final plating.]

Strikes



No. 1
 Flat
 Self-Centering



No. 2
 Universal
 Self-Centering



No. 3
 Angle



No. 4
 Surface

Stanley Wrought Steel Chain and Foot Bolts



Nos. 355-1055

Showing
design of
No. 1055-10"Section
at Head

Nos. 357-1057

Showing
design of
No. 1057-10"Section
at Sill

1055 Chain Bolt. (U. S. Gov't Type 1022B).

Can be used on the inside or outside of doors by reversing the bolt.

Equipped with a strong music wire spring which throws the bolt automatically when the pin is released.

Made in lengths: 2, 3, 6, 8 and 10 inches. Furnished in Japan and Sherardized finishes.

DATA

Size Length of Bolt (Inches)	Length of Plate (Inches)	Width of Plate (Inches)	Diameter of Bolt (Inches)	Throw (Inches)
2	1 1/2	1 1/16	3/8	5/16
3	2 1/2	1 3/8	1/2	1/2
6	5	2	1 1/16	1 1/16
8	7	2 3/4	3/4	7/8
10	9	3 3/8	7/8	1 3/16

No. 355 made in sizes 2", 3", 6" and 8" is the same design as No. 1055 but furnished in all plated finishes. (U. S. Gov't Type 1022).

Furnished with an angle strike, a surface staple and a chain guide.

1057 Positive Action Foot Bolt. (U. S. Gov't Type 1050B).

Operated by a pressure of the foot on the cap, and released by a pressure on the trip.

Bolt need not be thrown to its extreme length before it will hold.

Made in lengths: 6, 8 and 10 inches. Furnished in Japan and Sherardized finishes.

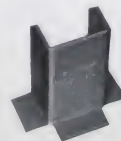
DATA

Size Length of Bolt (Inches)	Length of Plate (Inches)	Width of Plate (Inches)	Diameter of Bolt (Inches)	Throw (Inches)
6	5	2	5/8	1 3/16
8	7	2 3/4	1 1/16	7/8
10	9	3 3/8	1 1/16	1 1/8

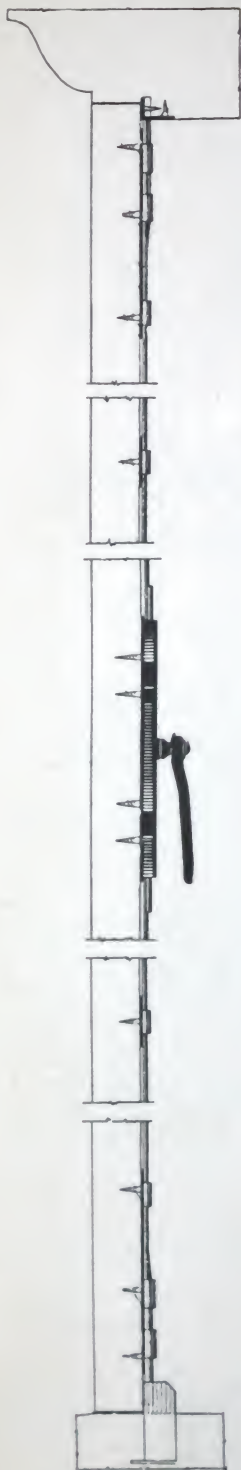
No. 357 made in sizes 6" and 8" is the same design as No. 1057 but furnished in all plated finishes. (U. S. Gov't Type 1050).

Furnished with a strike plate for wood floors. Strike No. 1138 for concrete floors is furnished in size 10 inch. Strike No. 1140-No. 1 for concrete floors is furnished only when ordered.

STRIKES For No. 1057

No. 1138
for
Concrete FloorsNo. 1140-No. 1
for
Concrete Floors

Stanley Extra Heavy Wrought Steel Bolt for Doors Opening In or Out



Section
Door opening out
Scale: One Eighth Full Size



Section at Head
Door opening in

No. 1052

Designed for use on doors of garages and industrial buildings.

Made in standard size for doors 8' high, with 6" adjustment by $\frac{1}{4}$ " intervals. Can be furnished for doors of any height on special order.

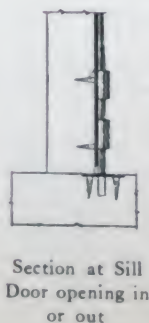
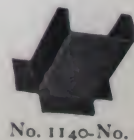
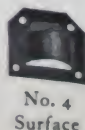
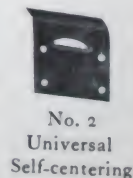
Rod and guides are made of cold rolled steel. Handle is made of solid brass.

Length of case 12"
Width of case $3\frac{1}{4}$ "
Length of handle 7"
Length of top and bottom guides $9\frac{3}{16}$ " x $3\frac{1}{4}$ "
Bolt Head half oval $1\frac{1}{2}$ " wide
Rod half oval $\frac{3}{4}$ " wide
Throw $1\frac{1}{2}$ "

Furnished with two end guides, four center guides, one No. 1 strike, one No. 2 strike, one No. 3 strike, and one No. 1140 No. 2 strike for concrete. Strikes No. 4 and No. 5 furnished only when ordered.

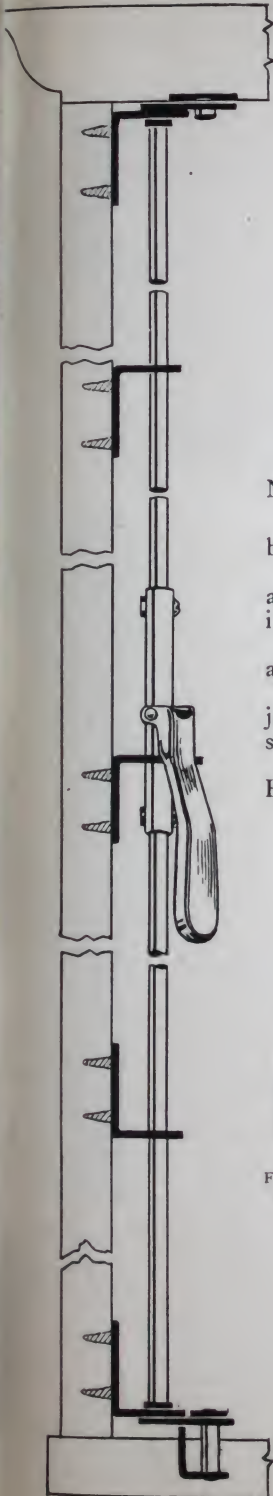
When ordering, specify exact height of door.

Strikes

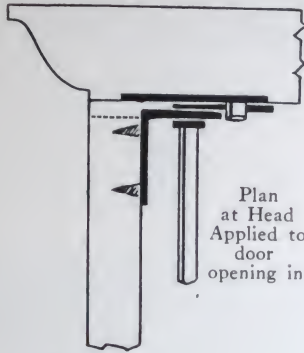


No. 105
One Sixt
Full Size

Stanley Extra Heavy Wrought Steel Bolt Espagnolette Type for Doors Opening In or Out



Plan
Applied to Door opening out



Plan
at Head
Applied to
door
opening in

No. 1053

Designed for use on doors of garages and industrial buildings.

Operates in such a way as to apply considerable leverage at the top and bottom of the door and will draw it into place even if the door is considerably warped.

Made in standard size for doors 8' high, with 3" adjustments in either direction.

Upper rod is grooved for drilling for additional adjustment. Can be furnished for doors of any height on special order.

Handles and guides are made of cold rolled steel. Handle is Stanley Sherardized and bronze plated.

Length of handle 7"

Diameter of rod $\frac{5}{8}$ "

Width of guides $2\frac{1}{8}$ "

Concrete strike 3" deep, $1\frac{1}{2}$ " wide

Wood strike 1" deep, $2\frac{1}{4}$ " wide

Top strike — Door opening out $2\frac{5}{8}$ " long, 2" wide

Top strike — Door opening in $3\frac{15}{16}$ " long, $2\frac{1}{4}$ " wide

Furnished with top strikes, floor strikes for wood and concrete.

When ordering, specify exact height of door.

Strikes



For Concrete floor
Door opening in
or out



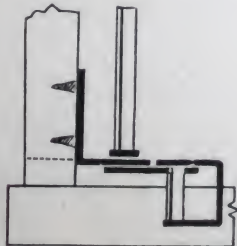
For Wood floor
Door opening out



Top Strike. For
door opening out
Bottom Strike for
Wood floor
Door opening in



Top Strike
Door opening in



Plan at Sill
Applied to Door opening in



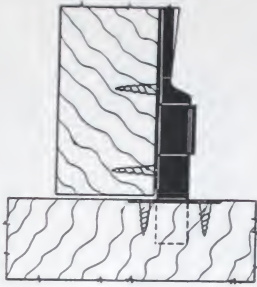
Bolt Locked
For Door
opening in



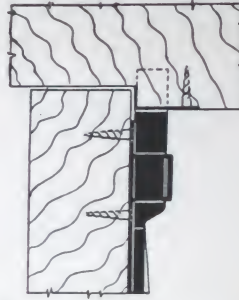
Bolt Locked
for Door
opening in

No. 1053
Bolt Locked for
Door opening out

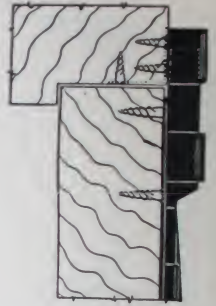
Stanley Extra Heavy Wrought Steel Spring Bolts



Section at Sill
Door opening in or out
Scale: One Quarter Full Size



Section at Head
Door opening out
Scale: One Quarter Full Size



Section at Head
Door opening in
Scale: One Quarter Full Size

No. 1050

Designed for use on doors of industrial buildings. Equipped with an exceptionally heavy spring.

Made in lengths: 8, 10, 12, 15, 18, 24, 30, 36 and 48 inches.

Width of plate	$1\frac{3}{4}"$
Square bolt head	$\frac{3}{4}"$
Throw	$1\frac{1}{4}"$

Sizes 8, 10 and 12 inch furnished with strike No. 1, larger sizes with surface strike No. 4. Strikes Nos. 2 and 3 furnished only when ordered.

Furnished with bright Japan plate, with plain steel bolt.



No. 1050
Scale: One Half
Full Size 8 Inch

Strikes



No. 1
Flat



No. 2
Angle

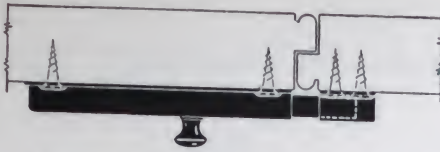


No. 3
Bent



No. 4
Surface

Stanley Wrought Steel Case Bolts



Scale: One Quarter Full Size of 6 Inch



No. 1096-6 Inch One Quarter Full Size

No. 1096

Made in lengths: 3, 4 and 6 inches.

Furnished in Bright Japan, Dead Black Japan, and Sherardized Dead Black Japan finishes.

No. 416 same design as No. 1096 but furnished in all plated finishes.

Stanley Heavy Wrought Steel Square Bolts



No. 1088-6 Inch One Quarter Full Size

No. 1088

Made in lengths: 3, 4, 5, 6, 8, 10 and 12 inches.

Furnished with Bright Japanned Plates.

No. 1336 same design as No. 1088 but galvanized.

Stanley Wrought Steel Shutter Bolts



Section

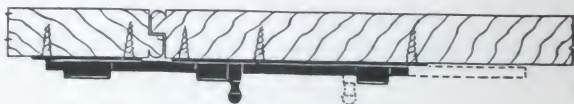
Scale: One Quarter Full Size 8 Inch



Nos. 1112-1326-8 Inch Scale: One Quarter Full Size

No. 1112 Japanned with Galvanized Bolt. Made in lengths: 6, 8, 10 and 12 inches.

No. 1326 Galvanized. Made in lengths: 6, 8, 10 and 12 inches.



Section

Scale: One Quarter Full Size 8 Inch



No. 1114-10 Inch Scale: One Quarter Full Size

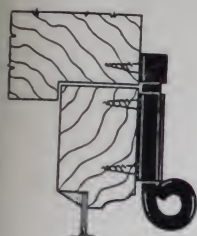
No. 1114 Japanned with Plain Steel Bolt. Made in lengths: 6, 8 10 and 12 inches.

WITH LOCK

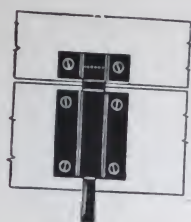


No. 1118-10 Inch Scale: One Quarter Full Size

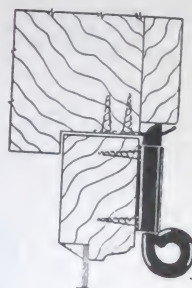
No. 1118 Japanned with Plain Steel Bolt. Made in lengths: 6, 8, 10 and 12 inches.



Section
Scale: One Quarter
Full Size No. 2



Elevation
Scale: One Quarter
Full Size No. 2



Section
Scale: One Quarter
Full Size No. 2



No. 1165 - No. 2
One Half Full Size

No. 1165

Equipped with a music wire spring. The ring handle and bolt are made of one piece of steel. The ring is of sufficient size for operating with a window pole.

Made in two sizes:

Size No. 1	
Length of case	1 "
Width of case	$1\frac{11}{16}$ "
Diameter of ring	$\frac{15}{16}$ "
Throw	$\frac{13}{32}$ "

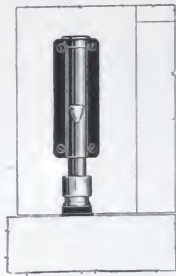
Size No. 2	
Length of case	2 "
Width of case	$1\frac{5}{8}$ "
Diameter of ring	$1\frac{3}{16}$ "
Throw	$\frac{1}{2}$ "

Furnished in Japan and all plated finishes.

Stanley Wrought Brass and Wrought Steel Door Holders

No. 457
Wrought Brass

No. 456
Wrought Steel



Elevation
One Sixth Full Size



Nos. 456-457
About One Quarter
Full Size



Section
One Sixth Full Size

No. 456 (U. S. Gov't Type 1151A)

No. 457 (U. S. Gov't Type 1151)

Designed for use on doors of any weight. Will hold doors open even though equipped with a door closer, on any kind of floor - wood, tile, concrete, linoleum - and even on a slanting or uneven floor.

The holder need not be thrown to extreme position to hold, as it will hold in any position.

Equipped with a composition rubber tip.

A spring in the plunger base makes possible the securing of added pressure against the floor.

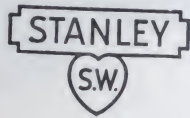
A slight pressure of the foot on the floor plate sets the rubber firmly against the floor and a slight pressure on the trip releases the holder allowing the door to swing free.

Length of case	$4\frac{15}{16}"$
Width of case	2"
Diameter of bolt	$\frac{3}{4}"$
Throw	$1\frac{5}{32}"$

Furnished in all plated finishes.

[Where steel holders are to be exposed to dampness, specify that the holders shall be Stanley Sherardized before final plating.]

STANLEY
*Wrought Steel Garage
Hardware*



The STANLEY WORKS

New Britain, Conn., U. S. A.

New York Chicago San Francisco
Los Angeles Seattle

Index

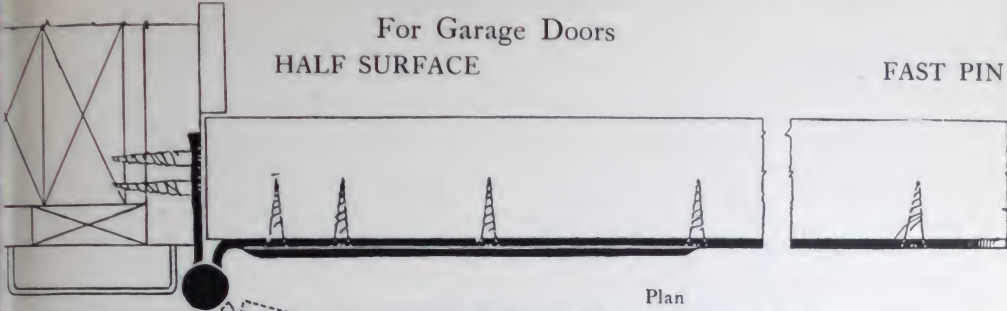
Garage Hardware

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Stanley Heavy Wrought Steel Ball Bearing Hinges

For Garage Doors
HALF SURFACE

FAST PIN



Scale: One Quarter Full Size of 36 Inch



No. BB1458

No. BB1458 (U. S. Gov't Type 2220)

Designed for use on doors of garages, industrial buildings, and fire houses.

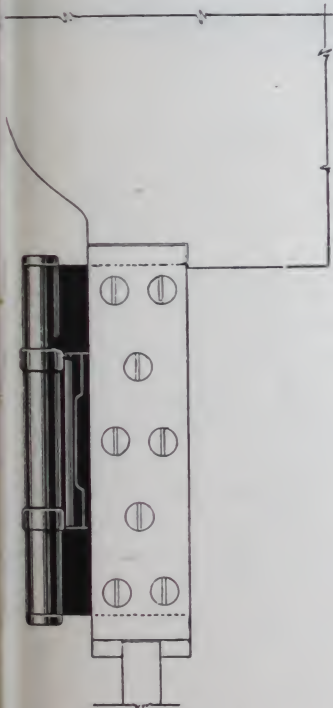
Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley** ball bearing washers, which prevent the hinges from wearing at the joints and insure that doors will operate easily.

Can be applied to a right or left hand door without being taken apart.

Screw holes are made to take carriage bolts, lag or wood screws.

No. BB1459 is the same design as No. BB1458 but has an offset of $2\frac{1}{4}$ inches, giving a throw of $4\frac{1}{2}$ inches.



Section of Head
Scale: One Quarter Full Size of 36 Inch

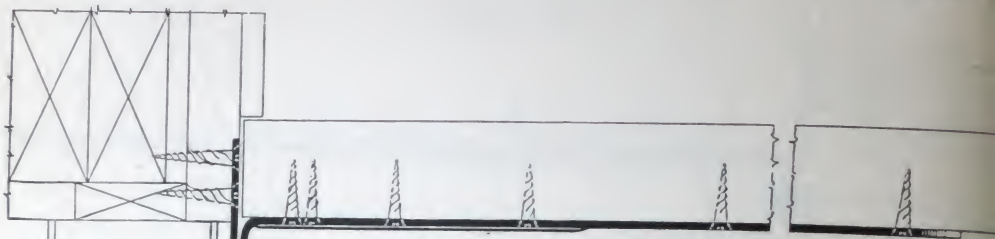
Class Nos.	Length of Door Leaf (Inches)	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Offset (Inches)	Throw (Inches)	Size of Screws
B1458	12	7	$2\frac{13}{16}$	3	$1\frac{1}{16}$	$2\frac{1}{8}$	2 X 20
	18	7	$2\frac{13}{16}$	3	$1\frac{1}{16}$	$2\frac{1}{8}$	2 X 20
	24	7	$2\frac{13}{16}$	3	$1\frac{1}{16}$	$2\frac{1}{8}$	2 X 20
	36	8	$3\frac{5}{16}$	4	$1\frac{1}{16}$	$2\frac{1}{8}$	2 X 20
B1459	36	8	4	4	$2\frac{1}{4}$	$4\frac{1}{2}$	2 X 20

For sets with which these hinges are packed, see page 98. For finishes, see page 99.

Stanley Heavy Wrought Steel Ball Bearing Hinges for Garage Doors

HALF SURFACE

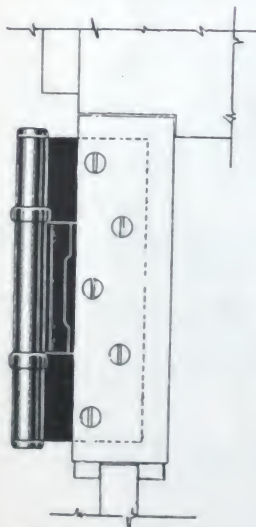
FAST



Plan. Scale: One Quarter Full Size of 24 Inch



No. BB1457

Section of Head
Scale: One Quarter Full
Size of 24 Inch

No. BB1457

Designed for use on doors of garages, where an ornamental hinge is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley** ball bearing washers, which prevent the hinges from wearing at the joints and insure that door will operate easily.

Can be applied to a right or left hand door without being taken apart.

Screw holes are made to take carriage bolts, lag or wood screws.

DATA

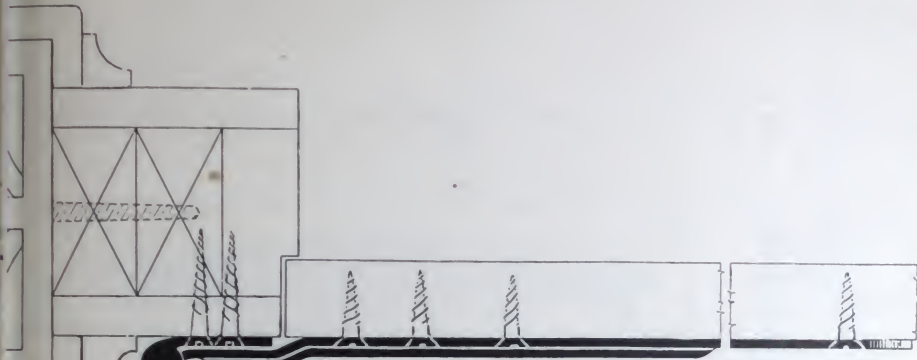
Class No.	Length of Door Leaf (Inches)	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Offset (Inches)	Throw (Inches)	Size of Screws
BB1457	10	7	$2\frac{13}{16}$	3	$1\frac{1}{16}$	$2\frac{1}{8}$	2" x 20
	24	7	$2\frac{13}{16}$	3	$1\frac{1}{16}$	$2\frac{1}{8}$	2" x 20

For sets with which these hinges are packed, see page 98. For finishes, see page 99.

Stanley Heavy Wrought Steel Ball Bearing Hinges for Garage Doors

FULL SURFACE

FAST PIN



Section
Scale: One Quarter Full Size



No. BB1456

No. BB1456

Designed for use on doors of garages, industrial buildings, and fire houses, where it is desired to have the doors swing entirely clear of the opening.

Hinges are applied full surface requiring no mortising. The door must be set flush with the casing.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley** ball bearing washers, which prevent the hinges from wearing at the joints and insure that doors will operate easily.

Can be applied to a right or left hand door without being taken apart.

Screw holes are made to take carriage bolts, lag or wood screws.



Section
One Quarter Full
Size 24"

DATA

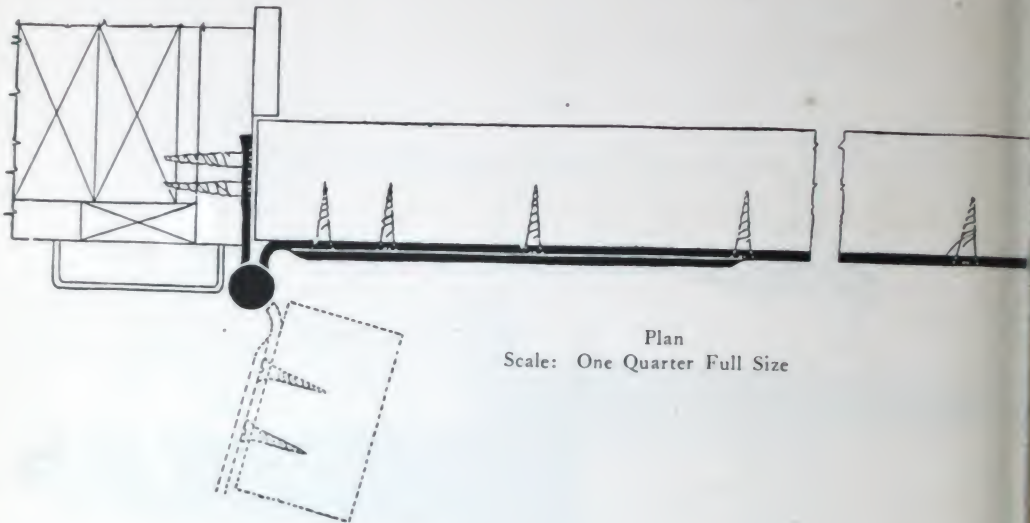
Class No.	Length of Door Leaf (Inches)	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Size of Screws
BB1456	12	7	2 $\frac{5}{8}$	3	2" x 20
	18	7	2 $\frac{5}{8}$	3	2" x 20
	24	8	2 $\frac{3}{4}$	4	2" x 20
	36	8	2 $\frac{3}{4}$	4	2" x 20

For finishes, see page 99.

Stanley Heavy Wrought Steel Ball Bearing Hinges for Garage Doors with Narrow Top Rails

HALF SURFACE

FAST P

**No. BB1454**

Designed for use on doors of garages and industrial buildings, having a narrow top rail. Can be applied so that the door leaf will center on the rail, thereby giving a neat appearance.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley** ball bearing washers, which prevent the hinges from wearing at the joints and insure that doors will operate easily.

Hinge No. BB1458 should be used for the center and bottom rails in connection with this hinge.

Screw holes are made to take carriage bolts, lag or wood screws.

DATA

Class No.	Length of Door Leaf (Inches)	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Offset (Inches)	Throw (Inches)	Size of Screws
BB1454	24	7	$2\frac{13}{16}$	3	$1\frac{1}{16}$	$2\frac{1}{8}$	2" x 20

Not reversible. Specify hand.

For finishes, see page 99.

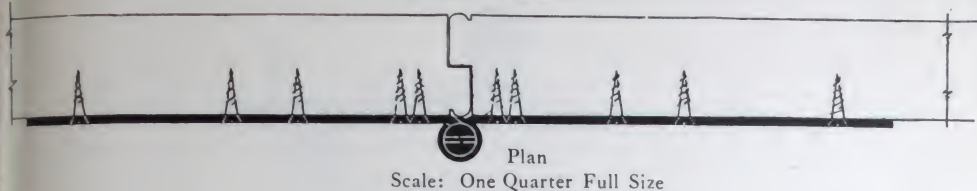
Stanley Heavy Wrought Steel Ball Bearing Hinges

for Garage Doors

ULL SURFACE

FAST PIN

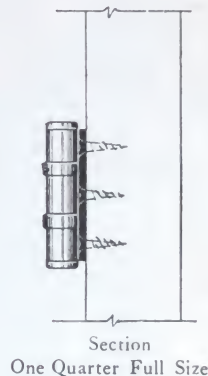
Without Offset



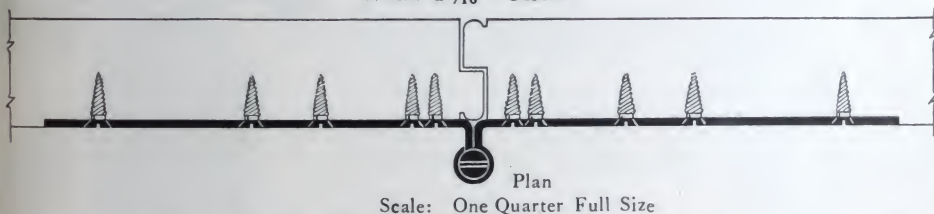
No. BB1453

No. BB1453

Length of joint 3"
Length of each leaf 10"
No. of screw holes 5 in each leaf
Size of screws $1\frac{1}{2}" \times 14$



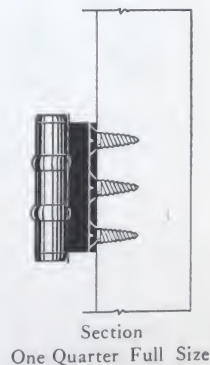
With $1\frac{1}{16}"$ Offset



No. BB1453 $\frac{1}{2}$

No. BB1453 $\frac{1}{2}$

Length of joint 3"
Length of each leaf 10"
Offset $1\frac{1}{16}"$
No. of screw holes 5 in each leaf
Size of screws $1\frac{1}{2}" \times 14$



Designed for use on folding doors of garages and industrial buildings.

Hinges lie flat against the surface of the doors.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two **Stanley** ball bearing washers which prevent the hinges from wearing at the joints and insure that doors will operate easily.

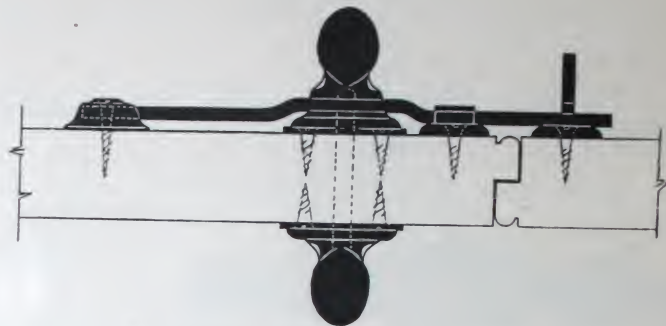
Offset of No. BB1453 $\frac{1}{2}$ allows sufficient clearance for other hardware that may project from the door.

Hinge No. BB1457 is the same design and can be used in connection with these hinges.

Screw holes are made to take carriage bolts, lag or wood screws.

For finishes, see page 99.

Stanley Extra Heavy Wrought Steel Duplex Thumb Latch



Plan

Scale: One Quarter Full Size

No. 1264

Designed for use on doors of garages and industrial buildings.

Furnished regularly adjustable for doors $1\frac{3}{4}"$ to $2\frac{1}{4}"$ in thickness; can also be furnished for doors $2\frac{1}{2}"$ to $3"$ in thickness when desired.

There is a handle on both sides of the door.

Combination holes in the escutcheons permit them to be securely bolted together through the door, using $\frac{1}{4}"$ carriage bolts.

Length of handle	$10\frac{1}{2}"$
Length of escutcheon	$14\frac{1}{2}"$
Width of " "	$2\frac{3}{4}"$
Length of bar	12 "

For finishes, see page 99.

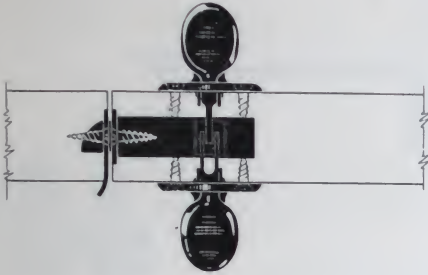
For sets with which this latch is packed, see page 98.



No. 1264

One Sixth Full Size

Stanley Wrought Steel Mortise Thumb Latch



Plan
Scale: One Quarter Full Size

No. 1289

Measurements and description are as follows:

Grips of the handles are $5\frac{1}{8}$ " long, overall length $9\frac{3}{8}$ "

Wrought steel case $3\frac{1}{4}$ " x $2\frac{7}{8}$ " x $\frac{7}{8}$ "

Flat front $5\frac{1}{8}$ " x $1\frac{1}{4}$ "

Strike lip to center $1\frac{1}{2}$ "

Backset $2\frac{1}{4}$ "

Latch-Bolt $\frac{3}{4}$ " throw

Reversible for right or left hand doors

Operation: Latch-Bolt by thumb piece from either side



No. 1289
One Quarter Full Size

Designed for use on doors of garages and industrial buildings which are not rabbeted.

The latch and handles are made of wrought steel. The handles and thumb pieces are well formed and liberal in size, making a very comfortable grip and a fine appearing handle.

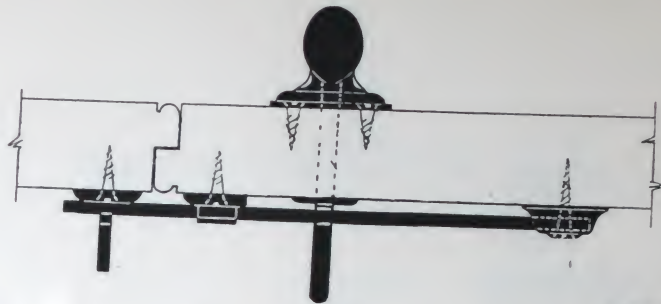
The Latch-Bolt is drop forged, and cold galvanized. It has a $\frac{3}{4}$ " throw to take care of the shrinkage between the door and jamb. This amount of throw is unusually large. Spring is made of hard phosphor bronze.

Furnished regularly adjustable for doors from $1\frac{5}{8}$ " to $2\frac{1}{4}$ " in thickness; can also be furnished for doors up to 3" in thickness when desired.

For finishes, see page 99.

For sets with which the set is packed, see page 98.

Stanley Extra Heavy Wrought Steel Thumb Latches



Plan

Scale: One Quarter Full Size

No. 1263

Designed for use on doors of garages and industrial buildings.
Adapted for use on doors $1\frac{1}{2}$ " to $2\frac{1}{4}$ " in thickness.

Handle is of generous proportions and mounted on a large escutcheon which distributes the screws over a wide area.
Combination holes permit the use of either bolts or screws.

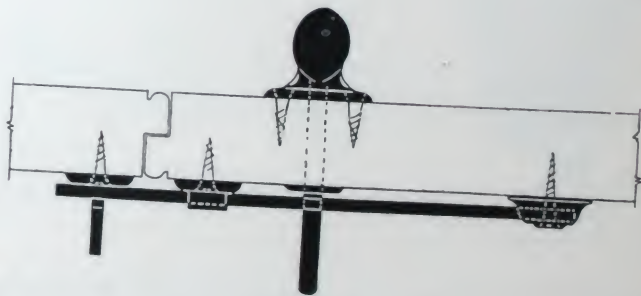
Length of handle	$10\frac{1}{2}$ "
Length of escutcheon	$14\frac{1}{2}$ "
Width of " "	$2\frac{3}{4}$ "
Length of bar	12"

For finishes, see page 99.



No. 1263

One Sixth Full Size



Plan

Scale: One Quarter Full Size

No. 1252 (U. S. Gov't Type 1189A)

Designed for use on doors of garages and industrial buildings.
Adapted for use on doors $1\frac{1}{2}$ " to $2\frac{1}{4}$ " in thickness.
Latches have combination holes for either bolts or screws.

Length of handle	$10\frac{1}{2}$ "
Length of bar	12"

For finishes, see page 99.

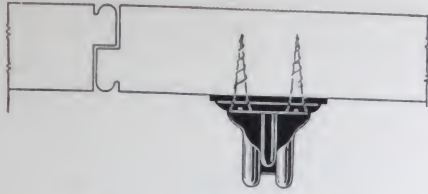
For sets with which this latch is packed see page 98.



No. 1252

One Sixth Full Size

Stanley Extra Heavy Wrought Steel Door Pulls



Plan

Scale: One Quarter Full Size

No. 1266

Handle is riveted to an escutcheon which increases the holding power of the screws by spreading them over a wide area.

Combination holes permit the use of bolts or screws.

Length of handle	10 1/2"
Length of escutcheon	14 1/2"
Width of " "	2 3/4"

For sets with which this pull is packed, see page 98.

For finishes, see page 99.



No. 1265

Similar in design to No. 1266 but without escutcheon

Length of handle	10 1/2"
Width of ends	2 1/2"

For sets with which this pull is packed, see page 98.

No. 1265

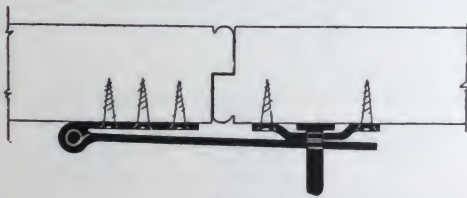
One Sixth Full Size



No. 1266

One Sixth Full Size

Stanley Extra Heavy Wrought Steel Safety Hinge Hasp



Plan

Scale: One Quarter Full Size

No. Sc915 1/2 (U. S. Gov't Type 1420)

When hasp is closed, all screws are covered preventing them from being removed.

The adjustable feature of the staple permits the hasp to operate when the position of the door is changed by shrinkage. The staple is in a vertical position which permits the padlock to lie flat.

Length of slotted part	7 "
Length of joint	2 1/2"

For sets with which this hasp is packed see page 98.

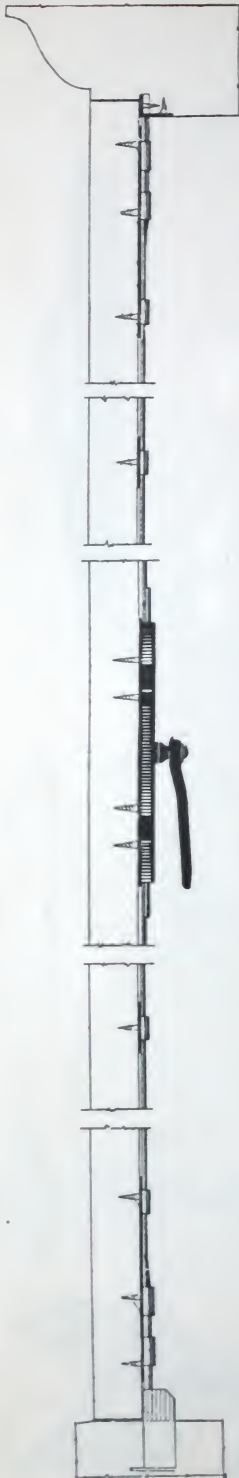
For finishes, see page 99.



No. Sc915 1/2

One Third Full Size

Stanley Extra Heavy Wrought Steel Bolt for Doors Opening In or Out



Section at Head
Door opening in

No. 1052

Designed for use on doors of garages and industrial buildings.

Made in standard size for doors 8' high, with 6" adjustment by $\frac{1}{4}$ " intervals. Can be furnished for doors of any height on special order.

Rod and guides are made of cold rolled steel. Handle is made of solid brass.

- Length of case 12"
- Width of case $3\frac{1}{4}$ "
- Length of handle 7"
- Length of top and bottom guides $9\frac{3}{16}$ " x $3\frac{1}{4}$ "
- Bolt Head half oval $1\frac{1}{2}$ " wide
- Rod half oval $\frac{3}{4}$ " wide
- Throw $1\frac{1}{2}$ "

Furnished with two end guides, four center guides, one No. 1 strike, one No. 2 strike, one No. 3 strike, and one No. 1140-No. 2 strike for concrete. Strikes No. 4 and No. 5 furnished only when ordered.

When ordering, specify exact height of door.

Strikes



No. 1
Flat
Self-centering



No. 2
Universal
Self-centering



No. 3
Angle
Self-centering



No. 4
Surface



No. 5
Surface



No. 1140-No. 2



Section at Sill
Door opening in
or out

Section
Door opening out
Scale: One Eighth Full Size



No. 1052
One Sixth
Full Size

Stanley Extra Heavy Wrought Steel Bolt Espagnolette Type for Doors Opening In or Out

Plan
at Head
Applied to
door
opening in

Bolt Locked
For Door
opening in

No. 1053

Designed for use on doors of garages and industrial buildings.

Operates in such a way as to apply considerable leverage at the top and bottom of the door and will draw it into place even if the door is considerably warped.

Made in standard size for doors 8' high, with 3" adjustments in either direction.

Upper rod is grooved for drilling for additional adjustment. Can be furnished for doors of any height on special order.

Handles and guides are made of cold rolled steel. Handle is Stanley Sherardized and bronze plated.

Length of handle 7"
Diameter of rod $\frac{5}{8}$ "
Width of guides $2\frac{1}{8}$ "

Concrete strike 3" deep, $1\frac{1}{2}$ " wide

Wood strike 1" deep, $2\frac{1}{4}$ " wide

Top strike — Door opening out $2\frac{5}{8}$ " long, 2" wide

Top strike — Door opening in $3\frac{1}{16}$ " long, $2\frac{1}{4}$ " wide

Furnished with top strikes, floor strikes for wood and concrete.

When ordering, specify exact height of door.

Strikes

For Concrete floor
Door opening in
or out

For Wood floor
Door opening out

Top Strike. For
door opening out
Bottom Strike for
Wood floor
Door opening in

Top Strike
Door opening in

Bolt Locked
for Door
opening in

No. 1053
Bolt Locked for
Door opening out

Plan
Applied to Door opening out

Plan at Sill
Applied to Door opening in

Stanley Wrought Steel Chain and Foot Bolts



No. 1055

Showing
design of
No. 1055-10"Section
at Head

No. 1057

Showing
design of
No. 1057-10"Section
at Sill

No. 1055 Chain Bolt. (U. S. Gov't Type 1022B).

Can be used on the inside or outside of doors by reversing the bolt.

Equipped with a strong music wire spring which throws the bolt automatically when the chain is released.

Made in lengths: 6, 8 and 10 inches.

DATA

Size Length of Bolt (Inches)	Length of Plate (Inches)	Width of Plate (Inches)	Diameter of Bolt (Inches)	Throw (Inches)
6	5	2	$1\frac{1}{16}$	$1\frac{1}{16}$
8	7	$2\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$
10	9	$3\frac{3}{8}$	$\frac{7}{8}$	$1\frac{3}{16}$

Furnished with an angle strike, a surface staple and a chain guide.

No. 1057 Positive Action Foot Bolt. (U. S. Gov't Type 1050B).

Operated by a pressure of the foot on the cap, and released by a pressure on the trip.

Bolt need not be thrown to its extreme length before it will hold.

Made in lengths: 6, 8 and 10 inches.

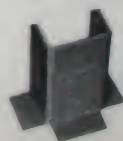
DATA

Size Length of Bolt (Inches)	Length of Plate (Inches)	Width of Plate (Inches)	Diameter of Bolt (Inches)	Throw (Inches)
6	5	2	$\frac{5}{8}$	$1\frac{3}{16}$
8	7	$2\frac{3}{4}$	$1\frac{1}{16}$	$\frac{3}{8}$
10	9	$3\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{1}{8}$

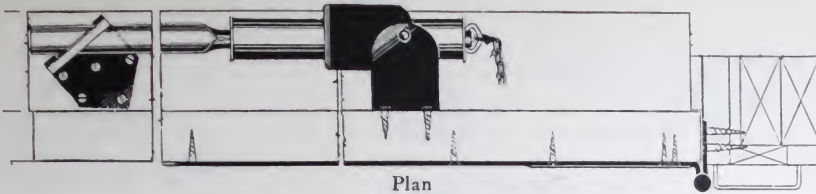
Furnished with a strike plate for wood floors. Strike No. 1138 for concrete floors is furnished with size 10 inch. Strike No. 1140-No. 1 for concrete floors is furnished only when ordered. For finishes see page 99.

No. 1138
for
Concrete Floors

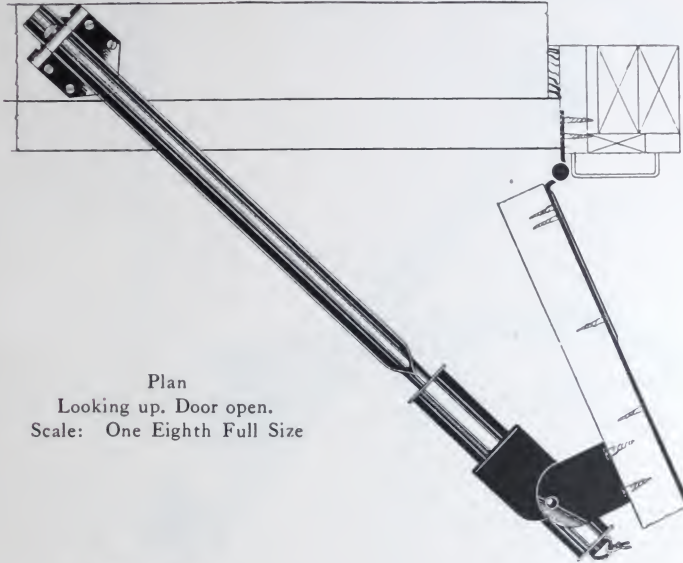
STRIKES For No. 1057

No. 1140-No. 1
for
Concrete Floors

Stanley Wrought Steel Cushion Type Garage Door Holder



Plan
Looking up. Door closed.



Plan
Looking up. Door open.
Scale: One Eighth Full Size



No. 1773
One Eighth Full Size

No. 1773

Two heavy springs covered by a cylinder, act as a cushion, relieving the strain on the door and the screws holding the hinges.

Doors equipped with these holders are held open by the action of the bar which is fastened to the door, engaging with the bumper plate which is attached to the soffit. By a slight pull on the chain the holder is released.

The arm is 35" long. Made of heavy wrought steel of special U shaped construction.



Showing No. 1773 Garage Door Holder applied.
Door in open position.

A 44" length of chain is furnished.

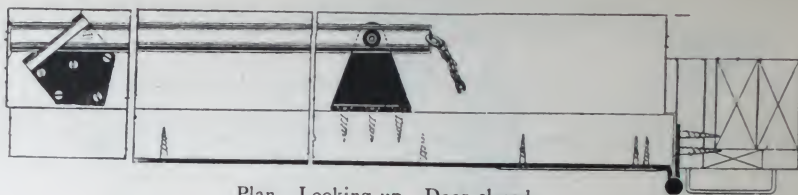
The holders can be used on doors with square or segment heads and are reversible for right or left hand doors.

For sets with which these holders are packed, see page 98.

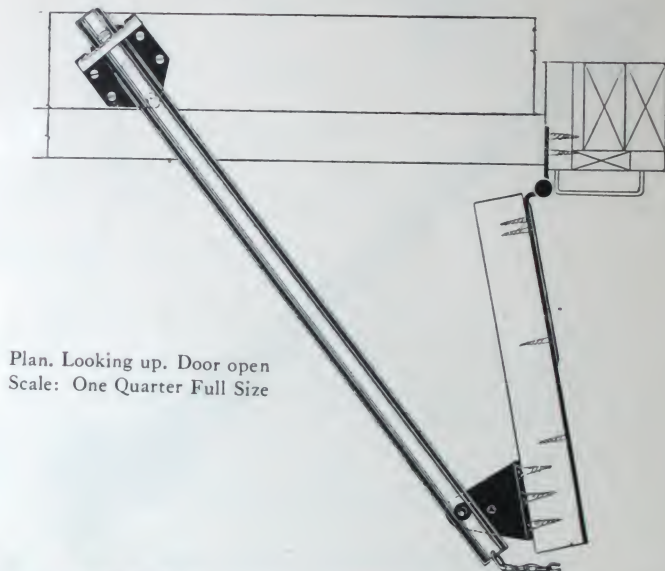
For finishes, see page 99.



Stanley Wrought Steel Garage Door Holder



Plan. Looking up. Door closed.



Plan. Looking up. Door open
Scale: One Quarter Full Size



No. 1774

No. 1774
One Sixth Full Size

Hold the doors open securely against the wind.

Can be used on doors with square or curved tops and are reversible for right or left hand doors.

Doors equipped with these Holders are held open by the action of the bar which is fastened to the door, engaging with the bumper plate, which is attached to the soffit. By a slight pull on the chain the door can be easily closed.



Showing No. 1774 Garage Door Holder applied.
Door in open position.

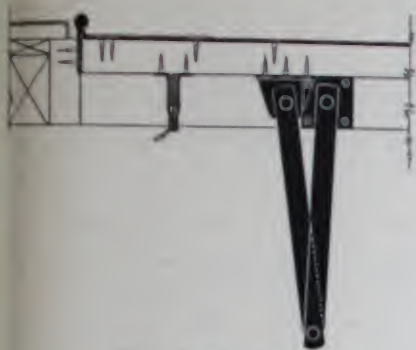
The arm is 30" long. Made of heavy wrought steel of special U shaped construction. A 44" length of chain is furnished.

For sets with which these holders are packed, see page 98.

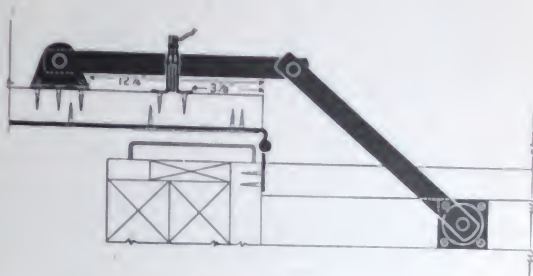
For finishes, see page 99.

Stanley Wrought Steel Garage Door Holder

For Garage Doors Opening 180°



Plan. Looking up.
Door Closed



Plan. Looking up.
Door Open

Scale: One Tenth Full Size

No. 1772

Length of each rod $14\frac{1}{2}$ "

Door plate, length $3\frac{1}{2}$ ", width $3\frac{11}{16}$ "

Jamb plate, $3\frac{3}{16}$ " square

Catch, length $3\frac{1}{2}$ ", width $2\frac{3}{4}$ "



No. 1772

One Sixth Full Size

Designed for use on garage doors, where it is desired to open the doors to 180 degrees. They are especially suitable for doors opening into narrow alley-ways where the local regulations will not permit doors to stand at an angle of 90 degrees.

These holders will securely hold the doors open against the wind and are released by a slight pull on the chain.

Reversible for use on right or left hand doors.

For finishes, see page 99.



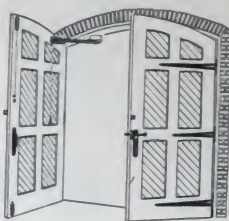
Showing No. 1772 Garage Door Holder applied.
Door in open position.

Stanley Garage Hardware Sets



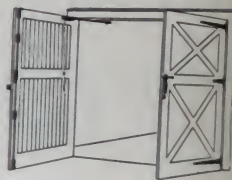
Set No. 1780

- 2 pairs BB1458—36" Hinges
 1 pair BB1458—24" Hinges
 1 pair 1773 Door Holders
 1 only 1053 Garage Bolt
 1 only 1264 Extra Heavy Duplex
 Latch
 1 only Sc915½ Padlock Hasp
 Packed one set in a case.



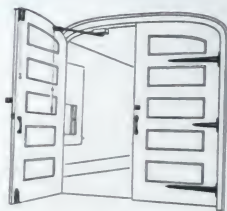
Set No. 1781

- 2 pairs BB1458—36" Hinges
 1 pair BB1458—24" Hinges
 1 pair 1773 Door Holders
 1 only 1055—10" Chain Bolt
 1 only 1057—10" Foot Bolt
 1 only Sc915½ Padlock Hasp
 1 only 1264 Extra Heavy Duplex
 Thumb Latch
 1 only 1266 Door Pull
 Packed one set in a case.



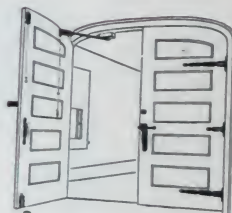
Set No. 1782

- 2 pairs BB1457—24" Hinges
 1 pair BB1457—10" Hinges
 1 pair 1773 Door Holders
 1 only 1053 Garage Bolt
 1 only 1264 Extra Heavy Duplex
 Thumb Latch
 1 only Sc915½ Padlock Hasp
 Packed one set in a case.



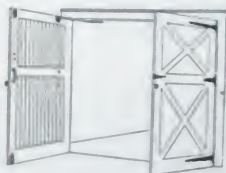
Set No. 1783

- 2 pairs BB1457—24" Hinges
 1 pair BB1457—10" Hinges
 1 pair 1773 Door Holders
 1 only 1055—10" Chain Bolt
 1 only 1057—10" Foot Bolt
 1 only 1264 Extra Heavy Duplex
 Thumb Latch
 1 only 1266 Door Pull
 1 only Sc915½ Padlock Hasp
 Packed one set in a case.



Set No. 1784½

- 2 pairs BB1458—24" Hinges
 1 pair BB1458—12" Hinges
 1 pair 1773 Door Holders
 1 only 1055—10" Chain Bolt
 1 only 1057—10" Foot Bolt
 1 only 1289 Mortise Thumb Latch
 1 only 482—No. 4 Door Pull
 1 only Sc915½ Padlock Hasp
 Packed one set in a case.



Set No. 1785

- 2 pairs BB1457—24" Hinges
 1 pair BB1457—10" Hinges
 1 pair 1774 Door Holders
 1 only 1055—6" Chain Bolt
 1 only 1057—6" Foot Bolt
 1 only 1252 Extra Heavy Garage
 Thumb Latch
 1 only 1265 Extra Heavy Door Pull
 1 only Sc915½ Padlock Hasp
 Packed one set in a case.



Set No. 1786

- 3 pairs BB1457—10" Hinges
 1 pair 1774 Door Holders
 1 only 1055—6" Chain Bolt
 1 only 1057—6" Foot Bolt
 1 only 1260 No. 4 Thumb Latch
 1 only 1257 No. 4 Door Pull
 Packed one set in a case.



Set No. 1787½

- 2 pairs BB1458—18" Hinges
 1 pair BB1458—12" Hinges
 1 pair 1774 Door Holders
 1 only 1055—8" Chain Bolt
 1 only 1057—8" Foot Bolt
 1 only 1289 Mortise Thumb Latch
 1 only 482—No. 4 Door Pull
 1 only Sc915½ Padlock Hasp
 Packed one set in a case.

Stanley Garage Hardware Finishes

J — Bright Japan

J1 — Dead Black Japan, dull finish.

Z — Stanley Sherardized; Rust-Proof finish.

ZJ1 — Stanley Sherardized, then coated in Dead Black Japan, thus finished the article has the rust preventing feature of Stanley Sherardizing, together with the rich appearance of Dead Black Japan. Stanley Sherardizing is done before products are assembled.

In ordering Stanley Garage Hardware, specify the class number of the article followed by the Finish symbol. For example: BB1458 ZJ1 or BB1458J1.

Stanley Ball Bearing Washers

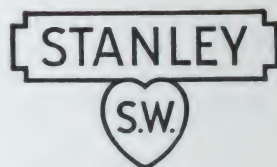
For Garage Hinges



Illustration shows the Ball Bearing washers which are used in Stanley Garage Hinges.

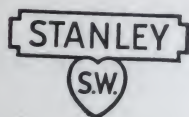
The tool steel balls roll in case hardened steel raceways.

The copper jacket prevents dust and moisture from entering the bearings. The brass eyelet acts as a bushing between the pin and the washer. In assembling the washers are packed with a non-fluid oil and need no further attention.



STANLEY

Wrought Steel Blind Hardware



This section illustrates and describes Stanley Blind Hardware suitable for various types of Standard Construction. Should you have a condition where this hardware will not meet your requirements send us a detail so that we may suggest how to solve it.

The STANLEY WORKS

New Britain, Conn., U. S. A.

New York Chicago San Francisco

Los Angeles Seattle

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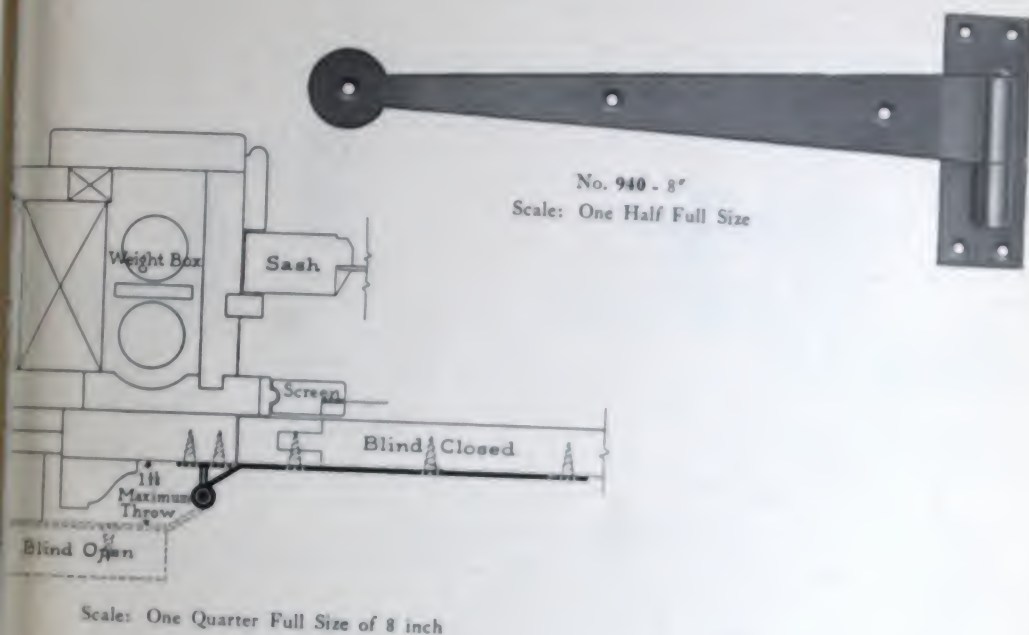
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Stanley Wrought Steel Blind Hinges

for Frame Construction

No. 940



Scales: One Quarter Full Size of 8 inch

Designed for use on blinds hung flush with the casing.

The strap of the hinge extends across the joints of the blind, giving added strength to the blind.

Offset of the hook is measured from back of plate to center of pin.

No. 940

Size Length of Strap (Inches)	Width of Strap at Joint (Inches)	Length of Hook Plate (Inches)	Width of Hook Plate (Inches)	Offset (Inches)	Throw (Inches)
6	1	3 $\frac{1}{4}$	1 $\frac{1}{8}$	1 $\frac{1}{16}$	2
8	1 $\frac{1}{4}$	3 $\frac{7}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	1 $\frac{11}{16}$
10	1 $\frac{3}{4}$	3 $\frac{7}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	1 $\frac{11}{16}$
12	1 $\frac{1}{2}$	4	1 $\frac{1}{4}$	1	1 $\frac{15}{16}$
16	1 $\frac{3}{4}$	4 $\frac{1}{4}$	1 $\frac{1}{2}$	1	1 $\frac{11}{16}$

Can be furnished with offsets for other throws. A sketch of the construction is necessary.

Class Numbers

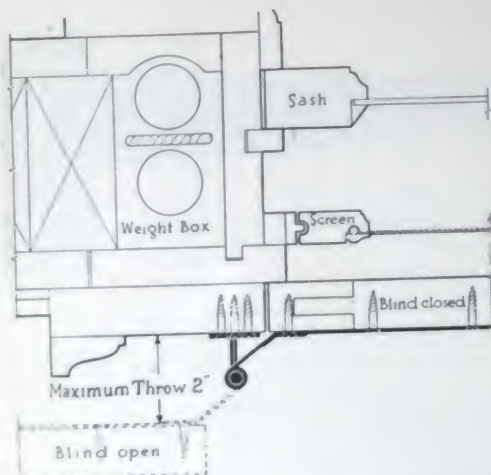
No. 940 Plain Steel.

No. 940J1 Dead Black Japanned.

No. 940Z Sherardized.

Stanley Wrought Steel Blind Hinges for Frame Construction

No. 1640



Scale: One Quarter Full Size



No. 1640

Scale: One Quarter Full Size

Designed for use on blinds hung flush with the casing.

The strap of the hinge extends across the joints of the blind, giving added strength to the blind.

The hinge measures $4\frac{3}{16}$ " on the vertical, 5" on the horizontal. Width 1".

Offset of the hook is measured from back of plate to center of pin.

Offset $1\frac{1}{16}$ " Throw 2" Width of hook plate $1\frac{1}{8}$ "

Class Numbers

No. 1640 Plain Steel.

No. 1360 Galvanized.

Center Hinge

No. 1642



No. 1642

Scale: One Quarter Full Size

Designed for use in connection with hinge No. 1640 where the blind requires three hinges.

Offset of the hook is measured from back of plate to center of pin.

Length of hinge $5\frac{7}{8}$ " Width of hinge $\frac{3}{8}$ " Offset $1\frac{1}{16}$ " Throw 2" Width of hook plate $1\frac{1}{8}$ "

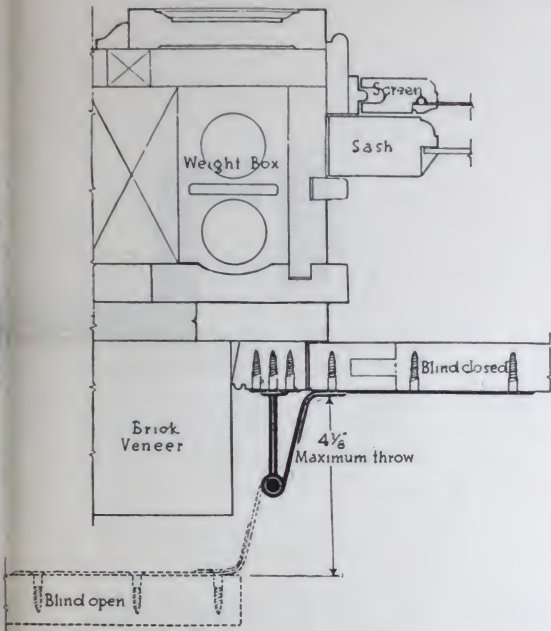
Class Numbers

No. 1642 Plain Steel.

No. 1642R Galvanized.

Stanley Wrought Steel Blind Hinges for Brick Construction

No. 1644



Scale: One Quarter Full Size



No. 1644

Scale: One Quarter Full Size

Designed for use on blinds hung flush with the casing where the construction has a deep reveal. The strap of the hinge extends across the joints of the blind, giving added strength to the blind.

The hinge measures $4\frac{3}{16}$ " on the vertical, 5" on the horizontal. Width 1".

Offset of the hook is measured from back of plate to center of pin.

Offset $2\frac{1}{8}$ "

Throw $4\frac{1}{8}$ "

Width of hook plate $1\frac{1}{8}$ ".

Class Numbers

No. 1644 Plain Steel.

No. 1364 Galvanized.

Center Hinge

No. 1646



No. 1646

Scale: One Quarter Full Size

Designed for use in connection with hinge No. 1644 where the blinds require three hinges. Length of hinge $5\frac{7}{8}$ " Width of hinge $\frac{7}{8}$ " Offset $2\frac{1}{8}$ " Throw $4\frac{1}{8}$ " Width of hook plate $1\frac{1}{8}$ ".

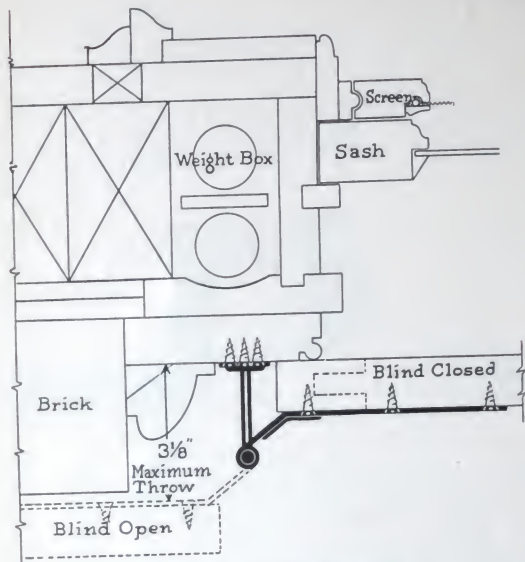
Class Numbers

No. 1646 Plain Steel.

No. 1646R Galvanized.

Stanley Wrought Steel Blind Hinges for Brick Construction

Hinge No. 1640 with Hook of No. 1644



Scale: One Quarter Full Size



Set No. 1640 x 1644
Scale: One Quarter Full Size

Designed for use on standard blinds hung on the outside of the casing where the construction has a deep reveal.

The strap of the hinge extends across the joints of the blind, giving added strength to the blinds.

The hinge measures $4\frac{3}{16}$ " on the vertical, 5" on the horizontal. Width 1".

Offset of the hook is measured from back of plate to center of pin.

Offset of hinge $1\frac{1}{16}$ " Offset of hook $2\frac{1}{8}$ " Throw $3\frac{1}{8}$ " Width of hook plate $1\frac{1}{8}$ "

Class Numbers

Set No. 1640 x 1644 Plain Steel.

Set No. 1360 x 1364 Galvanized.

Center Hinge

Hinge No. 1642 with Hook of No. 1644



Set No. 1642 x 1644
Scale: One Quarter Full Size

Designed for use in connection with hinge No. 1640 x 1644 where the blinds require three hinges. Offset of the hook is measured from back of plate to center of pin.

Length of hinge $5\frac{13}{16}$ " Width of hinge $\frac{7}{8}$ " Offset of hinge $1\frac{1}{16}$ " Offset of hook $2\frac{1}{8}$ "
Throw $3\frac{1}{8}$ " Width of hook plate $1\frac{1}{8}$ "

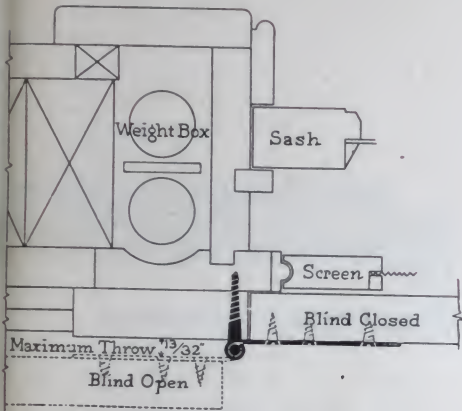
Class Numbers

Set No. 1642 x 1644 Plain Steel.

Set No. 1642R x 1364 Galvanized.

Stanley Wrought Steel Blind Hinges for Frame Construction

Hinge No. 1620 with Hook No. 1666



Scale: One Quarter Full Size



Set No. 1620 x 1666

Scale: One Half Full Size

Designed for use on blinds hung flush with the casing.

The strap of the hinge extends across the joints of the blind giving added strength to the blind.

No. 1620

Size Length of Hinge (Inches)	Width of Hinge (Inches)	Throw (Inches)
$3\frac{7}{8}$	1	$13\frac{3}{32}$
$4\frac{3}{4}$	1	$13\frac{7}{32}$

Furnished with hooks 2, $2\frac{1}{2}$, and 3 inches in length.

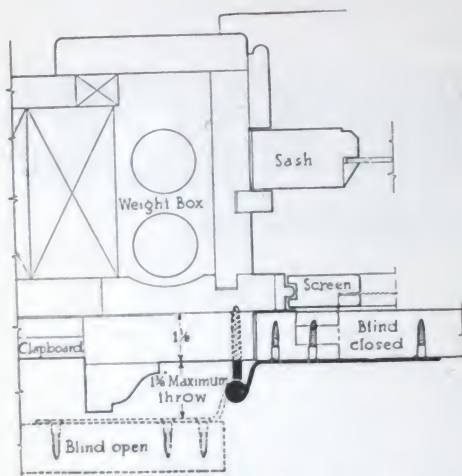
Class Numbers

Set No. 1620 x 1666 Plain Steel.

Set No. 1620R x 1666R Galvanized.

Stanley Wrought Steel Blind Hinges for Frame Construction

Hinge No. 1624 with Hook No. 1666



Scale: One Quarter Full Size of $\frac{3}{4}$ " offset



Set No. 1624 x 1666
Scale: One Half Full Size

Designed for use on blinds hung flush with the casing.

The strap of the hinge extends across the blind, giving added strength to the blind.

Length of hinge 5" Width 1".

Hinge No. 1624 with $\frac{1}{2}$ " offset, with Hook No. 1666-2" long, gives a throw of $1\frac{15}{16}$ "

Hinge No. 1624 with $\frac{3}{4}$ " offset, with Hook No. 1666-2 $\frac{1}{2}$ " long, gives a throw of $1\frac{3}{4}$ "

Hinge No. 1624 with 1" offset, with Hook No. 1666-3" long, gives a throw of $1\frac{13}{16}$ "

Class Numbers

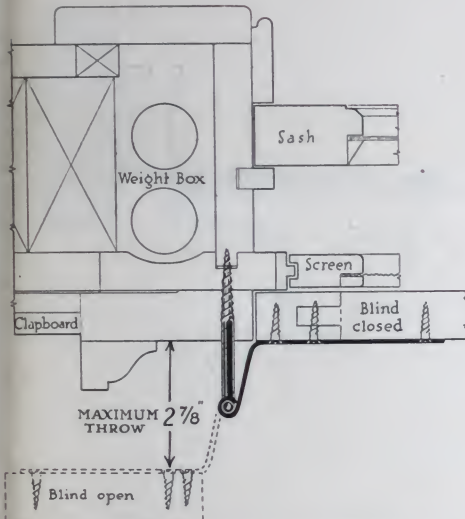
Set No. 1624 x 1666 Plain Steel.

Set No. 1624R x 1666R Galvanized.

Stanley Wrought Steel Blind Hinges

for Frame and Brick Construction

Hinge No. 1628 with Hook No. 1666



Scale: One Quarter Full Size of $1\frac{1}{2}$ " offset.



Set No. 1628 x 1666
Scale: One Half Full Size

Designed for use on blinds hung flush with the casing.

The strap of the hinge extends across the blind, giving added strength to the blind.

Length of hinge 5" Width 1".

Hinge No. 1628 with $1\frac{1}{4}$ " offset, with Hook No. 1666-3" long, gives a throw of $2\frac{3}{8}$ "

Hinge No. 1628 with $1\frac{1}{2}$ " offset, with Hook No. 1666- $3\frac{1}{2}$ " long, gives a throw of $2\frac{7}{8}$ "

Hinge No. 1628 with $1\frac{3}{4}$ " offset, with Hook No. 1666- $3\frac{1}{2}$ " long, gives a throw of $3\frac{3}{8}$ "

Hinge No. 1628 with 2" offset, with Hook No. 1666- $3\frac{1}{2}$ " long, gives a throw of $3\frac{7}{8}$ "

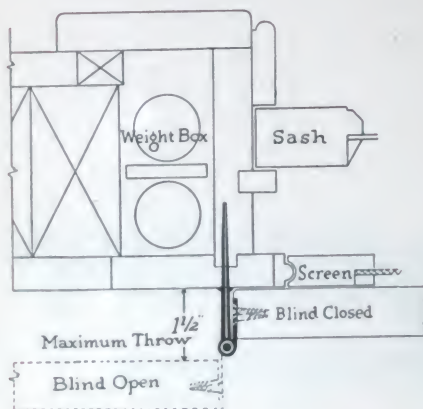
Class Numbers

Set No. 1628 x 1666 Plain Steel.

Set No. 1628R x 1666R Galvanized.

Stanley Wrought Steel Safety Blind Hinges for Frame Construction

Hinge No. 1606 with Hook No. 1652



Scale: One Quarter Full Size



Set No. 1606 x 1652
Scale: One Half Full Size

Designed for use on blinds hung on the outside of the casing.

The hinges are constructed with a safety feature so that the blinds cannot be blown off.

Length of hinge $2\frac{1}{2}$ " Width $1\frac{1}{8}$ " Throw $1\frac{1}{2}$ " Length of hook $3\frac{1}{4}$ ".

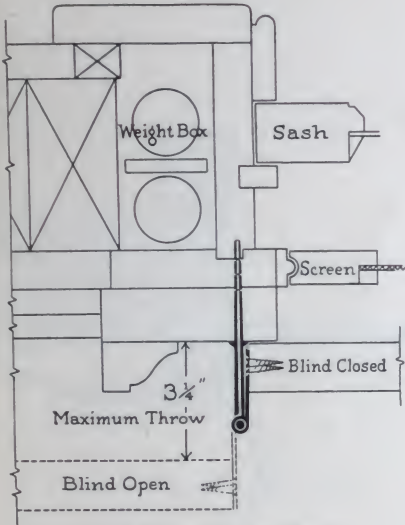
Class Numbers

Set No. 1606 x 1652 Plain Steel.

Set No. 1606R x 1652R Galvanized.

Stanley Wrought Steel Blind Hinges for Frame Construction

Hinge No. 1608 with Hook No. 1650-4½"



Scale: One Quarter Full Size



Set No. 1608 x 1650-4½"
Scale: One Half Full Size

Designed for use on blinds hung on the outside of the casing.

Length of hinge 3" Width 2" Throw 3¼" Length of hook, 4½"

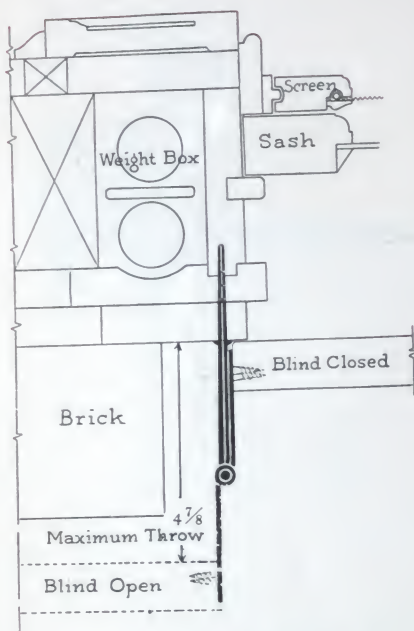
Class Numbers

Set No. 1608 x 1650 - 4½" Plain Steel. Set No. 1608R x 1650R - 4½" Galvanized.

Stanley Wrought Steel Blind Hinges

for Brick Construction

Hinge No. 1612 with Hook No. 1650 - $5\frac{1}{2}"$



Scale: One Quarter Full Size



Set No. 1612 x 1650 - $5\frac{1}{2}"$

Scale: One Half Full Size

Designed for use on blinds hung on the outside of the casing, where the construction has a deep reveal.

Length of hinge 3" Width $2\frac{13}{16}"$ Throw $4\frac{7}{8}"$ Length of hook $5\frac{1}{2}"$.

Class Numbers

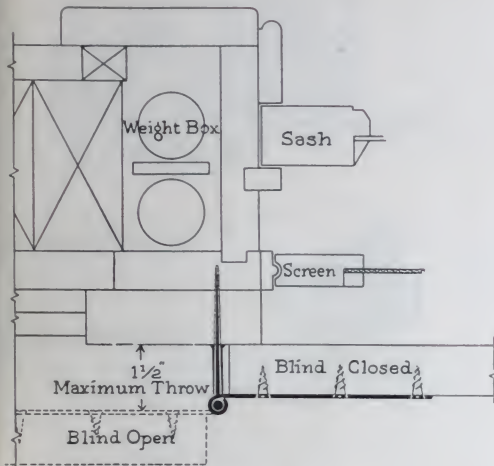
Set No. 1612 x 1650 - $5\frac{1}{2}"$ Plain Steel.

Set No. 1612R x 1650R - $5\frac{1}{2}"$ Galvanized.

Stanley Wrought Steel Blind Hinges

for Frame Construction

Hinge No. 1616 with Hook No. 1650 - $3\frac{1}{2}$ "



Scale: One Quarter Full Size



Set No. 1616 x 1650 - $3\frac{1}{2}$ "

Scale: One Half Full Size

Designed for use on blinds hung outside of the casing.

The strap of the hinge extends across the joints of the blinds, giving added strength to the blind.

Length of hinge $4\frac{7}{8}$ " Width $\frac{3}{4}$ " Throw $1\frac{1}{2}$ ".

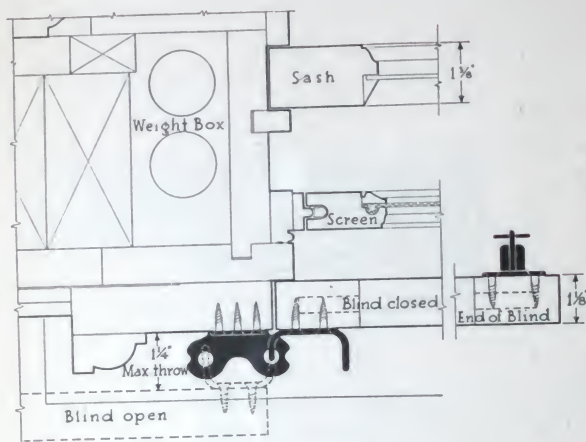
Class Numbers

Set No. 1616 x 1650 - $3\frac{1}{2}$ " Plain Steel. Set No. 1616R x 1650R - $3\frac{1}{2}$ " Galvanized.

Stanley Wrought Steel Gravity Blind Hinges

for Frame Construction

No. 1647½



Scale: One Quarter Full Size



Catch

Sill staple

No. 1647½

Scale: One Half Full Size

The blind cannot be removed except when opened wide enough to allow the hook plate to be lifted clear of the eye plate.

The hinges are reversible and automatically hold the blinds open or closed. To close the blind it is only necessary to lift the blind slightly.

Throw 1¼".

Class Numbers

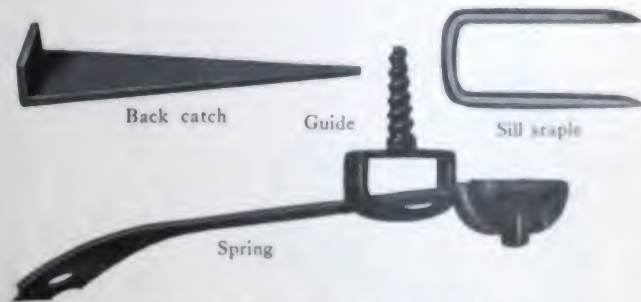
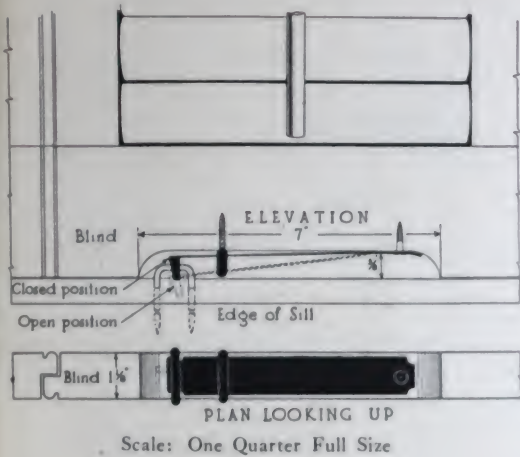
Set No. 1647½ Plain Steel.

Set No. 1647½Z Sherardized.

Stanley Wrought Steel Blind Fasteners

for Boston Pattern Blinds

No. 1672



Designed for use on blinds or shutters hung close to the screen or where there is not sufficient room to use other types of fasteners.

The latch is made of spring steel with a malleable head, and automatically holds the blind open or closed.

Class Numbers

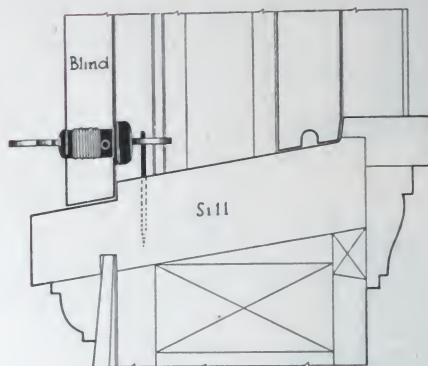
Set No. 1672J Japanned.

Set No. 1672Z Sherardized.

Stanley Wrought Steel Blind Fasteners

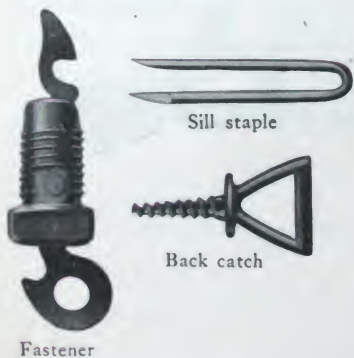
for Frame and Brick Construction

Nos. 1680 - 1680½



Scale: One Quarter Full Size

For Frame Construction



Set No. 1680

For Brick Construction



Set No. 1680½

One Half Full Size

Class Numbers

For Frame Construction

Set No. 1680 Plain Steel.

Set No. 1380 Galvanized.

For Brick Construction

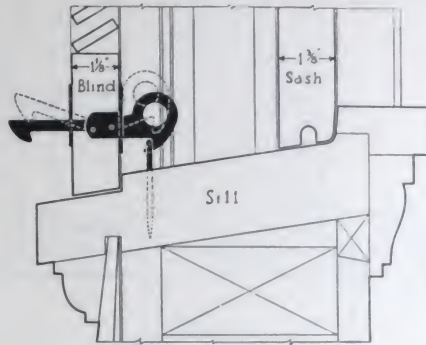
Set No. 1680½ Plain Steel.

Set No. 1380½ Galvanized.

Stanley Wrought Steel Double Acting Blind Fasteners

for Frame and Brick Construction

Nos. 1682 - 1682½

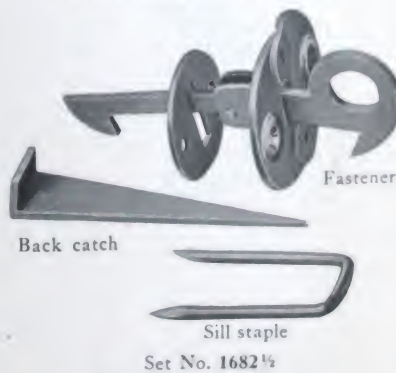


Scale: One Quarter Full Size

For Frame Construction



For Brick Construction



One Half Full Size

This fastener is of the gravity type. When the blinds are closed they cannot be unlocked from the outside.

Class Numbers

For Frame Construction

Set No. 1682 Plain Steel.

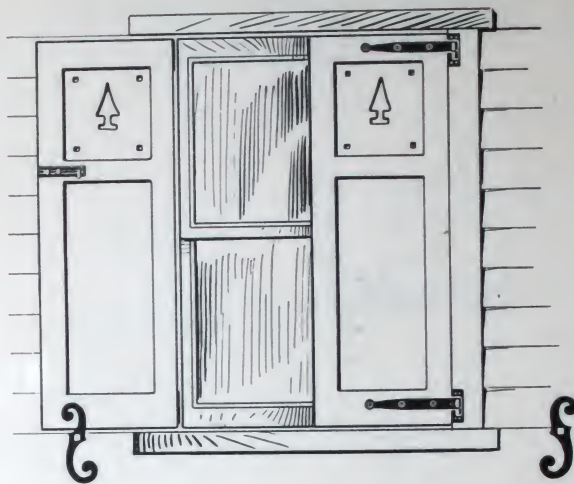
Set No. 1382 Galvanized.

For Brick Construction

Set No. 1682½ Plain Steel.

Set No. 1382½ Galvanized.

Stanley Wrought Steel Shutter Turnbuckles



Application



No. 1685
with Lag Screw



No. 1686
with Back Plate



No. 1687
with Drive Pin

Scale: One Quarter Full Size

Designed for use on frame, brick or stucco construction, for holding blinds open.

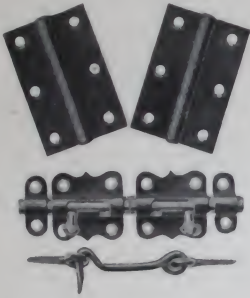
Made reversible for right and left hand.

Height over all $6\frac{3}{4}$ inches.

Standard clearance $2\frac{5}{8}$ inches.

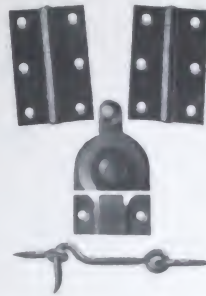
Finishes: Sherardized Dead Black Japanned, Old Iron and Sherardized and Priming coat for painting.

Stanley Wrought Steel Cellar Window Sets



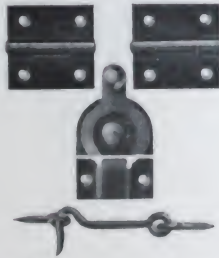
Set No. 1760

Size of butts, inches 3 x 2
 Size of bolts, " $2\frac{1}{2}$
 Length of hook, " $2\frac{1}{2}$



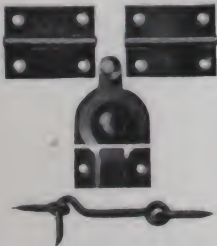
Set No. 1761

Size of butts, inches $2\frac{1}{2}$ x $1\frac{9}{16}$
 Length of hook, " $2\frac{1}{2}$



Set No. 1761½

Size of butts, inches 2 x 2
 Length of hook, " $2\frac{1}{2}$



Set No. 1762

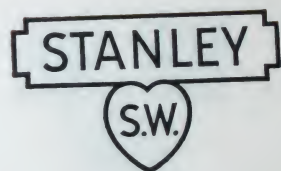
Size of butts, inches 2 x $1\frac{11}{16}$
 Length of hook, " $2\frac{1}{2}$



Set No. 1764

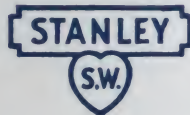
Size of butts, inches 2 x $1\frac{9}{16}$
 Length of hook, " $2\frac{1}{2}$
 Length of button, " 2

Furnished in Bright Japan and Sherardized finishes.



SCREW HOLE
SPECIFICATIONS

STANLEY
BRONZE AND STEEL
TEMPLATE BUTTS



THE STANLEY WORKS
NEW BRITAIN, CONN., U. S. A.

NEW YORK CHICAGO SAN FRANCISCO
LOS ANGELES SEATTLE

Manufacturers of Wrought Hardware and Carpenters' Tools

The Correct Specifications for Butts for Wood Doors, Hollow Metal Doors, Kalamein or Metal Covered Doors.

Two butts should be used for doors measuring 5' or less in height. Doors of a greater height require one butt for each 2½' or fraction thereof in height.

Extra heavy butts should always be used on doors where High Frequency Service is expected.

In using the table, whenever the door is of such a size as to call for butts of regular weight but is of such a character as to come into the High Frequency classification, then extra heavy butts of the same length and width are to be substituted.

Butt sizes given refer to length of joint.

Wrought bronze doors weigh about 50 per cent. more than steel doors, and require heavier butts.

DOOR DIMENSIONS		SIZE OF BUTTS	TEMPLATE SYMBOL FOR USE WITH METAL DOORS
¾" and 7⁄8" Cupboard Doors (Wood) up to 24" wide.....		2½"	
¾" and 1½" Screen Doors (Wood) up to 36" wide.....		3"	
1¾" Doors (Wood) up to 36" wide.....		3½"	
1¾" Doors (Steel) up to 36" wide.....		4½"	4½" A2
1¼" and 1¾" Doors (Wood) up to 32" wide.....		3½"	
over 32" to 37" wide.....		4"	
1¼" and 1¾" Doors (Steel) up to 32" wide.....		4½"	4½" A2
over 32" to 37" wide.....		5"	5" A2
1⅞", 1¼" and 1¾" Doors (Steel or Wood) up to 32" wide		4½"	4½" A
over 32" to 37" wide		5"	5" A
over 37" to 43" wide		5" extra heavy	5" B
over 43" to 50" wide		6" extra heavy	6" B
2", 2¼" and 2½" Doors (Steel or Wood) up to 37" wide		5"	5" A
over 37" to 43" wide		5" extra heavy	5" B
over 43" to 50" wide		6" extra heavy	6" B

Explanation of Standard Template Symbols

A designates regular weight butts.
B designates extra heavy butts.

A-2 designates regular weight butts of narrow widths.
B-2 designates extra heavy butts of narrow widths.

Expected Frequency of Operation of Doors [Number of operations of one leaf of door, opening and closing=1 cycle]					
Type of building and door	Expected frequency		Type of building and door	Expected frequency	
	Daily	Yearly		Daily	Yearly
Large dept. store entrance...	5,000	1,500,000	Schoolhouse corridor door...	80	15,000
Large office building entrance	4,000	1,200,000	Office building corridor door.	75	22,000
Theater entrance.....	1,000	450,000	Store toilet door.....	60	18,000
Schoolhouse entrance.....	1,250	225,000	Dwelling house entrance...	40	15,000
Schoolhouse toilet door.....	1,250	225,000	Dwelling house toilet door...	25	9,000
Store or bank entrance.....	500	150,000	Dwelling house corridor door	10	3,600
Office building toilet door...	400	118,000	Dwelling house closet door.	6	2,200

* Performance.

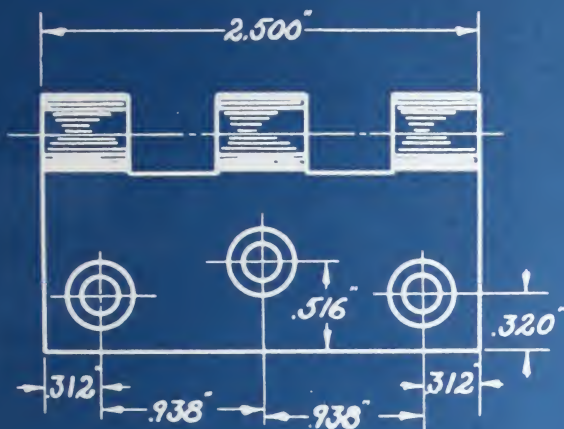
INDEX— TEMPLATE BUTTS

SIZE OF BUTT	PAGE	SIZE OF BUTT	PAGE	SIZE OF BUTT	PAGE	SIZE OF BUTT	PAGE
2½" x 2½"	3	4½" x 3"	7	5" x 3¾"		8" x 4"	
3" x 2½"		4½" x 3¾"		5" x 4"		8" x 5"	
3" x 3"	4			5" x 4½"		8" x 6"	12
3½" x 3"		4½" x 3½"		5" x 5"	10	8" x 8"	
3½" x 3½"	5	4½" x 3¾"		5" x 6"		8" x 10"	
4" x 3"		4½" x 4"	8	5" x 7"		4½"	13
4" x 3½"		4½" x 4½"		5" x 8"		5"	14
4" x 4"	6	4½" x 5"		6" x 4"		4½"	15
4" x 5"				6" x 5"	11	5"	16
4" x 6"		5" x 3"	9	6" x 6"		5"	17
		5" x 3½"		6" x 8"		5"	18
						6"	19

Screw Hole Specifications Stanley Template Butts

Standard A

The location of holes shown is standard for sizes:
 $2\frac{1}{2} \times 2\frac{1}{2}$ inches.



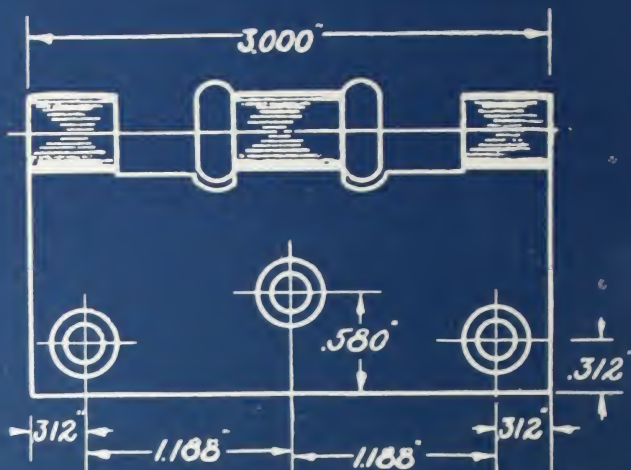
CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
174	$2\frac{1}{2} \times 2\frac{1}{2}$	.089	$\frac{1}{2} \times 8-32$	FULL MORTISE
176	"	"	"	TRANSOM
178	"	"	"	"
179	"	"	"	FULL MORTISE
194	"	"	"	" " BRZ.
856	"	"	"	FULL MORTISE
				$\frac{1}{4} \times 8$ BRITISH HEAD

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A

The location of holes shown is standard for sizes:
3 x 2½ inches and 3 x 3 inches.



CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.174 + 174	3 x 3	.092	* ½ - 10-24	FULL MORTISE
176	3 x 2½ + 3 x 3	"	"	TRANSOM
178	3 x 2½ + 3 x 3	"	"	"
B.B.179 + 179	3 x 3	"	"	FULL MORTISE
B.B.193	"	"	"	" " BRZ
194	"	"	"	" " "
196	3 x 2½ + 3 x 3	"	"	TRANSOM
196½	" " " "	"	"	" " "
B.B.197 + 197	3 x 3	"	"	TIGHT PIN
B.B.198 + 198	"	"	"	" " "
B.B.856	"	"	"	FULL MORTISE
B.B.145 + 145	"	"	"	" " "
B.B.144	"	"	"	LOOSE JOINT
B.B.146 + 146	"	"	"	FULL MORTISE
				+ * 8 BRITISH HEAD

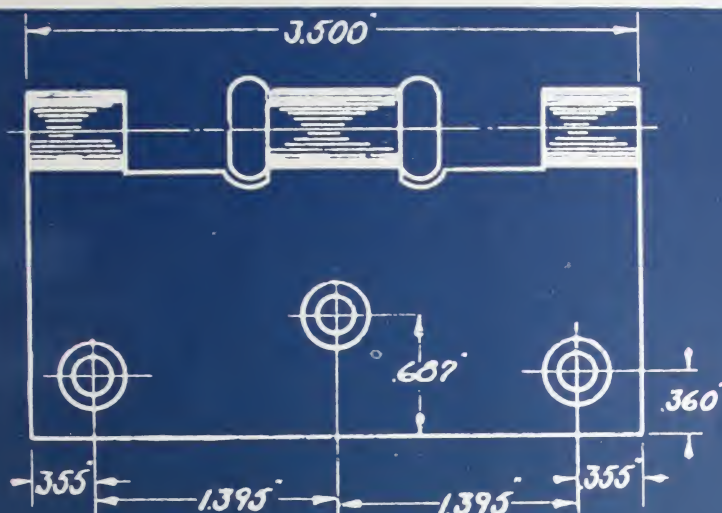
"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A

The location of holes shown is standard for sizes:

$3\frac{1}{2} \times 3$ inches and $3\frac{1}{2} \times 3\frac{1}{2}$ inches.



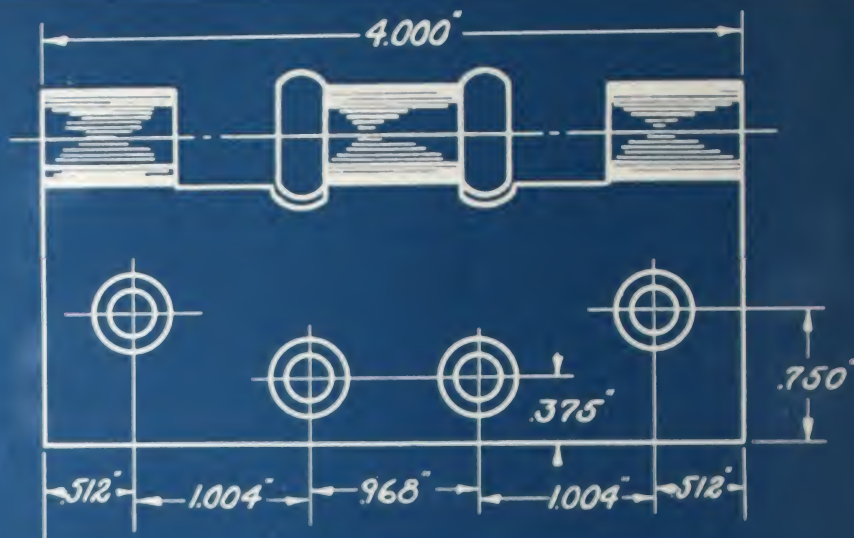
CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.174+174	$3\frac{1}{2} \times 3\frac{1}{2}$	123	$\frac{1}{2} \times 10-24$	FULL MORTISE
176	"	"	"	TRANSOM
178	"	"	"	"
B.B.179+179	"	"	"	FULL MORTISE
B.B.193	"	"	"	" " BRZ
194	"	"	"	" " "
196	"	"	"	TRANSOM
196 $\frac{1}{2}$	"	"	"	"
B.B.197+197	"	"	"	TIGHT PIN
B.B.198+198	"	"	"	" " "
B.B.856	"	"	"	FULL MORTISE
B.B.145+145	"	"	"	" "
B.B.144	"	"	"	LOOSE JOINT
B.B.146+146	"	"	"	FULL MORTISE

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A and Standard B

The location of holes shown is standard for sizes:
4 x 3 inches and 4 x 3½ inches, 4 x 4 inches, 4 x 5 inches and 4 x 6 inches.



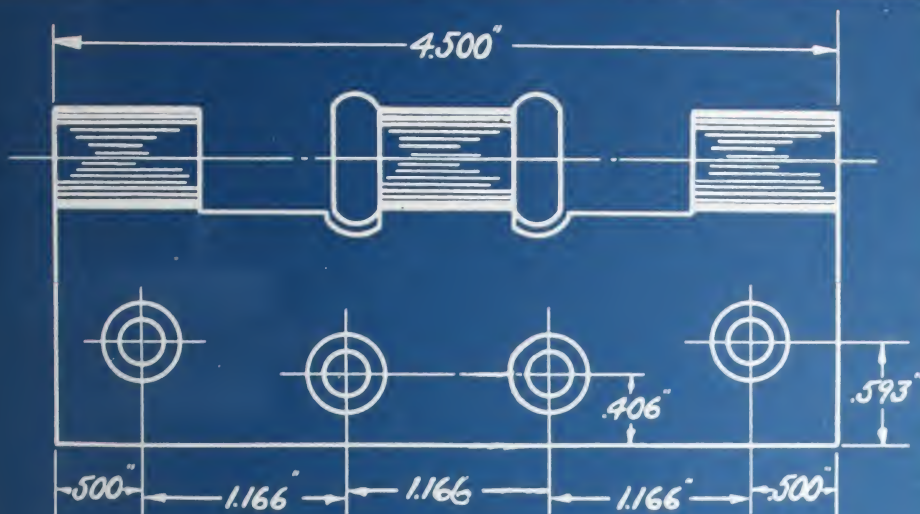
CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.168	4 x 4	.170	½ x 12-24	EXTRA HEAVY
B.B.174 + 174	"	.130	"	FULL MORTISE
176	"	"	"	TRANSOM
178	"	"	"	"
B.B.179 + 179	"	"	"	FULL MORTISE
B.B.193	"	"	"	" " BRZ
194	"	"	"	" " "
B.B.197	"	"	"	TIGHT PIN
B.B.198	"	"	"	" " "
B.B.236	"	"	"	FULL MORTISE
B.B.145 + 145	"	"	"	" " "
B.B.144	"	"	"	LOOSE JOINT
B.B.146 + 146	"	"	"	FULL MORTISE
196 ½	"	"	"	TRANSOM

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A-2 and Standard B-2

The location of holes shown is standard for sizes:
 $4\frac{1}{2} \times 3$ inches and $4\frac{1}{2} \times 3\frac{1}{4}$ inches.



CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.168	$4\frac{1}{2} \times 3\frac{1}{4}$	.180	$\frac{1}{2} \times 12-24$	EXTRA HEAVY
B.B.174+174	"	.134	"	
B.B.179+179	"	"	"	
B.B.193	"	"	"	
194	"	"	"	
B.B.197	"	"	"	
B.B.198	"	"	"	
B.B.856	"	"	"	
B.B.199	"	.180	"	EXTRA HEAVY
B.B.145+145	"	.134	"	FULL MORTISE
B.B.144	"	"	"	LOOSE JOINT
B.B.146+146	"	"	"	FULL MORTISE

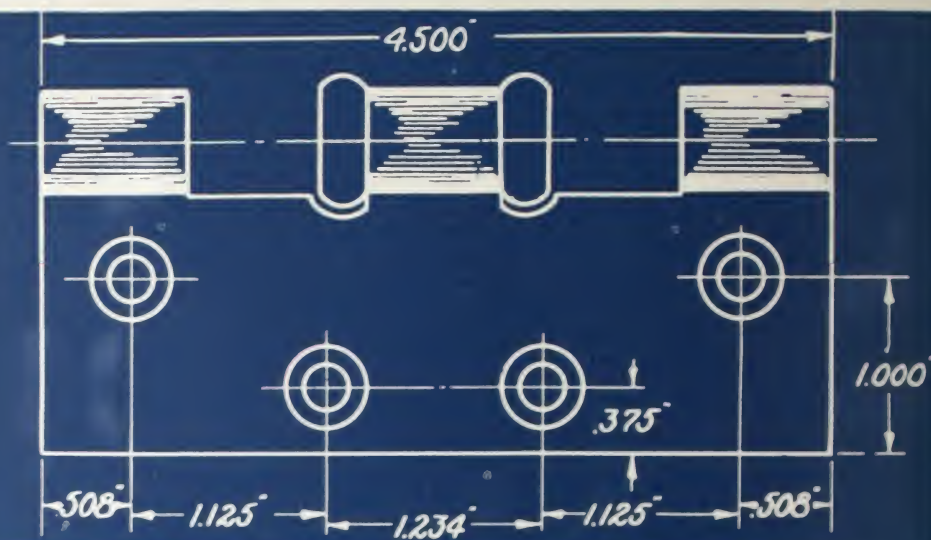
"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A and Standard B

The location of holes shown is standard for sizes:

$4\frac{1}{2} \times 3\frac{1}{2}$ inches, $4\frac{1}{2} \times 3\frac{3}{4}$ inches, $4\frac{1}{2} \times 4$ inches,
 $4\frac{1}{2} \times 4\frac{1}{2}$ inches and $4\frac{1}{2} \times 5$ inches.



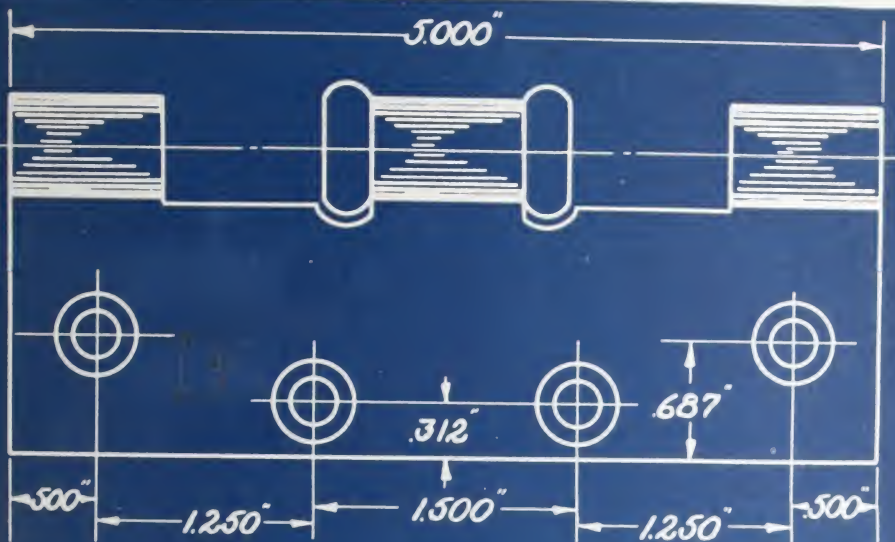
CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.168	$4\frac{1}{2} \times 4\frac{1}{2}$	.180	$\frac{1}{2}$ 12-24	EXTRA HEAVY
B.B.172	"	.134	" MOR.L.F.	HALF SURFACE
B.B.173	"	"	" " "	" "
B.B.174+174	"	"	"	FULL MORTISE
B.B.179+179	"	"	"	" "
B.B.193	"	"	"	" "
194	"	"	"	" "
B.B.197	"	"	"	" "
B.B.198	"	"	"	" "
B.B.856	"	"	"	" "
B.B.199	"	.100	"	EXTRA HEAVY
B.B.145+145	"	.134	"	FULL MORTISE
B.B.144	"	"	"	LOOSE JOINT
B.B.146+146	"	"	"	FULL MORTISE
B.B.163	$4\frac{1}{2}$	.190	" MOR.L.F.	HALF SURFACE

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A-2 and Standard B-2

The location of holes shown is standard for sizes:
5 x 3 inches and 5 x 3½ inches.



CLASS NO.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B. 168	5x3-5x3½	.190	½ x 12-24	EXTRA HEAVY
B.B. 174	"	.146	"	
B.B. 179	"	"	"	
B.B. 193	"	"	"	
194	"	"	"	
B.B. 197	"	"	"	
B.B. 198	"	"	"	
B.B. 199	"	.190	"	EXTRA HEAVY
B.B. 856	"	.146	"	
B.B. 145 & 145	"	"	"	
B.B. 146 & 146	"	"	"	

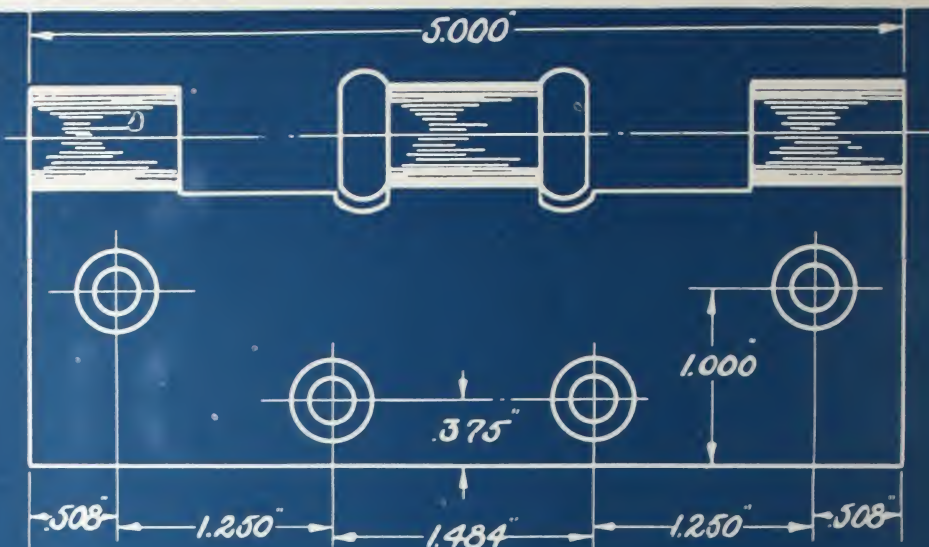
"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A and Standard B

The location of holes shown is standard for sizes:

5 x 3¾ inches, 5 x 4 inches, 5 x 4½ inches, 5 x 5 inches, 5 x 6 inches, 5 x 7 inches and 5 x 8 inches.



CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B. 168	5x4x5x5	.190	1/2x12-24	EXTRA HEAVY
B.B. 172	5"	.146	" MOR.LF.	HALF SURFACE
B.B. 173	5"	"	" " "	" "
B.B. 174+174	5x4x5x5	"	"	
B.B. 179+179	" "	"	"	
B.B. 193	5 x 5	"	"	
194	"	"	" "	
B.B. 197	"	"	"	
B.B. 198	"	"	"	
B.B. 199	"	.190	"	EXTRA HEAVY BRZ.
B.B. 856	5x4x5x5	.146	"	
B.B. 145+145	" "	"	"	
B.B. 167 1/2	5"	"	" MOR.LF.	HALF MORTISE
B.B. 146+146	5 x 5	"	"	
B.B. 163	5"	.190	" MOR. LF.	HALF SURFACE

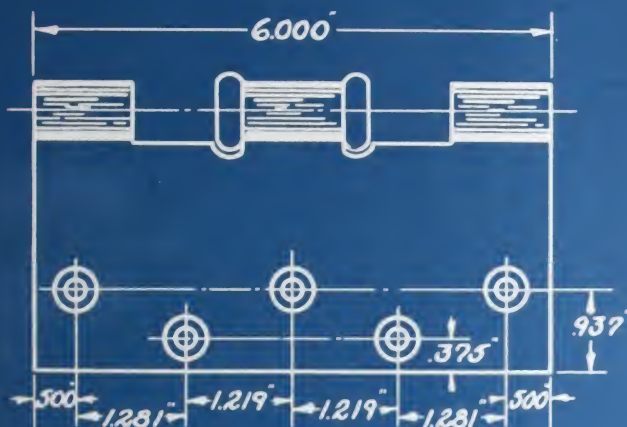
"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A and Standard B

The location of holes shown is standard for sizes:

6 x 4 inches, 6 x 5 inches, 6 x 6 inches and 6 x 8 inches.



SCALE-HALF SIZE

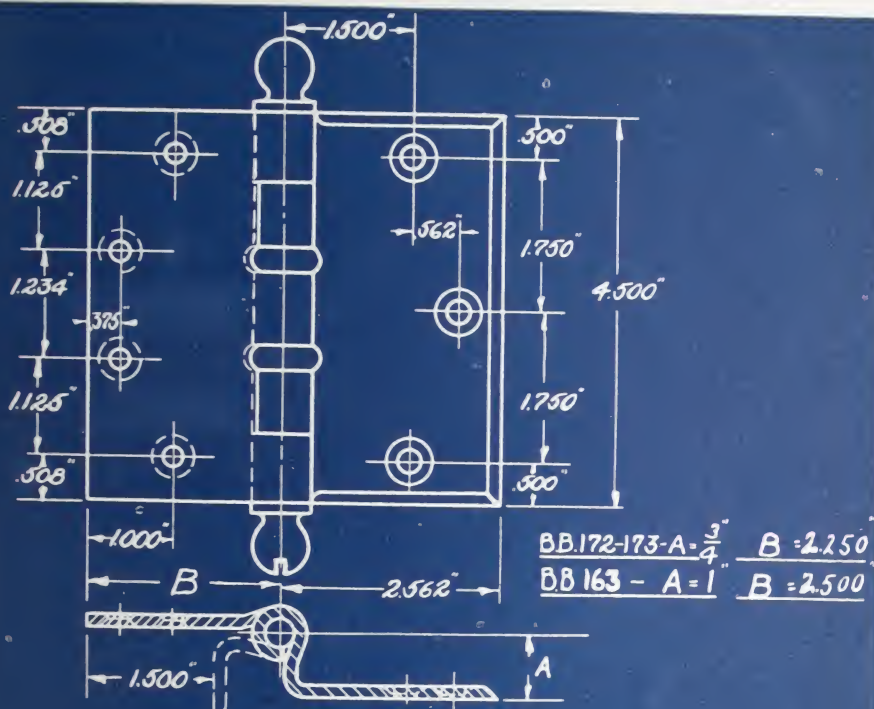
CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.168	6x5-6x6	.203	1/2 x 1/4-20	4 BALL BEARING
B.B.174+174	6 x 5	.160	"	2 " "
B.B.179+179	"	"	"	2 " "
B.B.193	6 x 6	"	"	2 " "
194	"	"	"	"
B.B.197	"	"	"	2 BALL BEARING
B.B.198	"	"	"	2 " "
B.B.199	"	.203	"	4 " "
B.B.856	6 x 5	.160	"	2 " "
B.B.145	6 x 6	"	"	2 " "
B.B.146	"	"	"	2 " "

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A and Standard B

The location of holes shown is standard for size $4\frac{1}{2}$ inches.



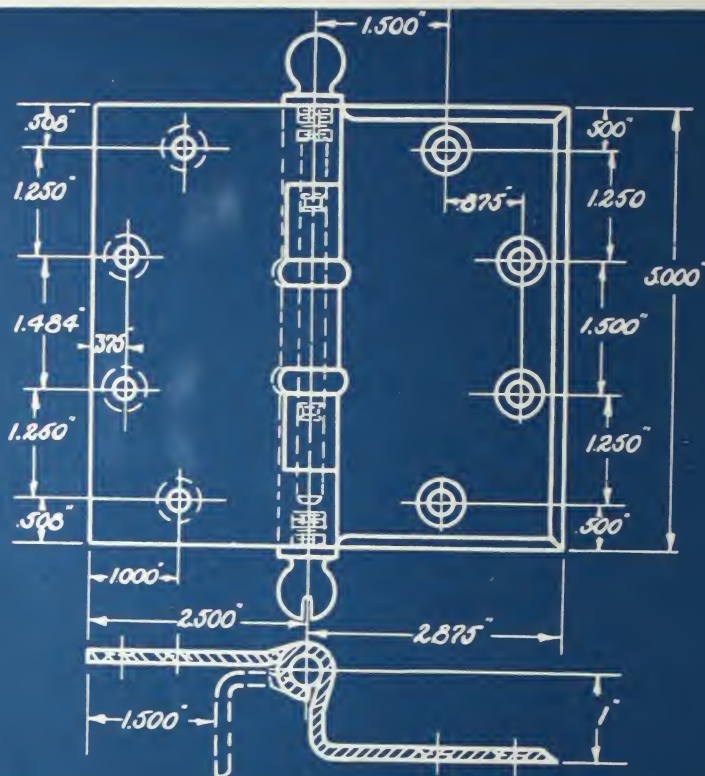
CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.163	$4\frac{1}{2}$	.180	$\frac{1}{2} \times 12-24$	EXTRA HEAVY
B.B.172	"	.134	"	
B.B.173	"	.134	"	
* FOR MORTISE LEAF				
2 \times $\frac{1}{4}$ 20 OHMS WITH GROMMET NUTS FOR SURFACE LEAF - B.B.172, B.B.173				
2 \times $\frac{1}{4}$ 20 " " " " " " " B.B.163				

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A and Standard B

The location of holes shown is standard for size 5 inches.



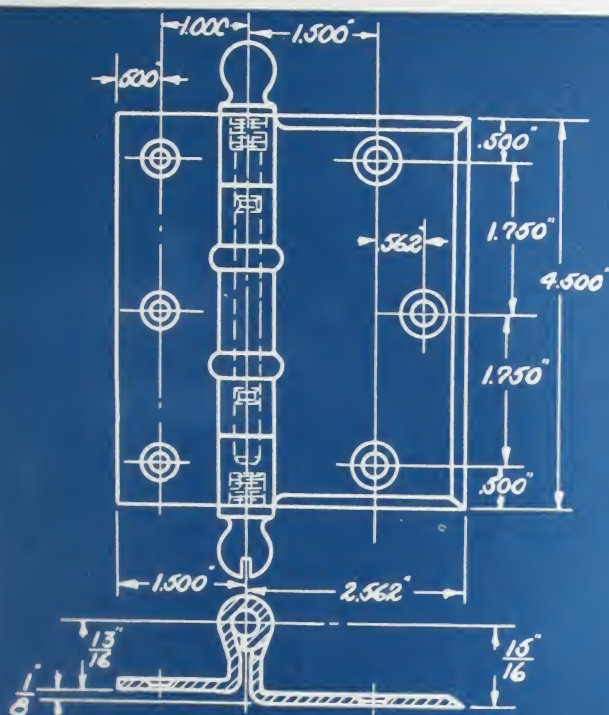
CLASS No.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B. 163	5	.190	$\frac{1}{2} \times 12-24$	EXTRA HEAVY
B.B. 172	5	.146	"	
B.B. 173	5	.146	"	
* FOR MORTISE LEAF				
2 x $\frac{1}{4}$ - 20 OH.M.S WITH GROMMET NUTS FOR SURFACE LEAF - B.B. 172 - B.B. 173				
2 $\frac{1}{4}$ x $\frac{1}{4}$ - 20	"	"	"	" " " " " " B.B. 163

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A

The location of holes shown is standard for size $4\frac{1}{2}$ inches.



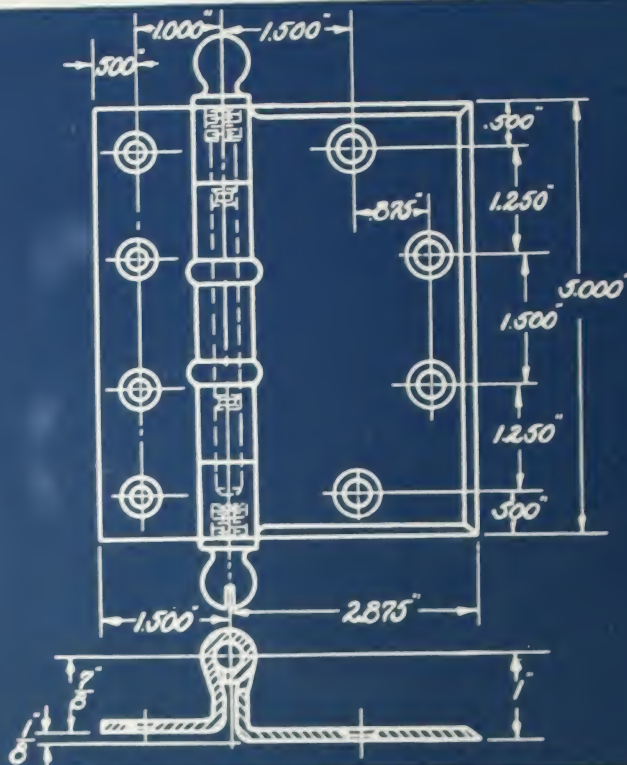
CLASS NO.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B. 170	$4\frac{1}{2}$	.134	$\frac{1}{2} \times 12-24$	FULL SURFACE
B.B. 171	$4\frac{1}{2}$	.134	"	" "
*FOR MORTISE LEAF				
$2 \times \frac{1}{4}$ -20 O.H.M.S. WITH GROMMET NUTS, FOR SURFACE LEAF				

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A

The location of holes shown is standard for size 5 inches.



CLASS NO.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZES	REMARKS
B.B.170	5	.146	$\frac{1}{2} \times 12-24$	FULL SURFACE
B.B.171	5	.146	-	-

• FOR MORTISE LEAF

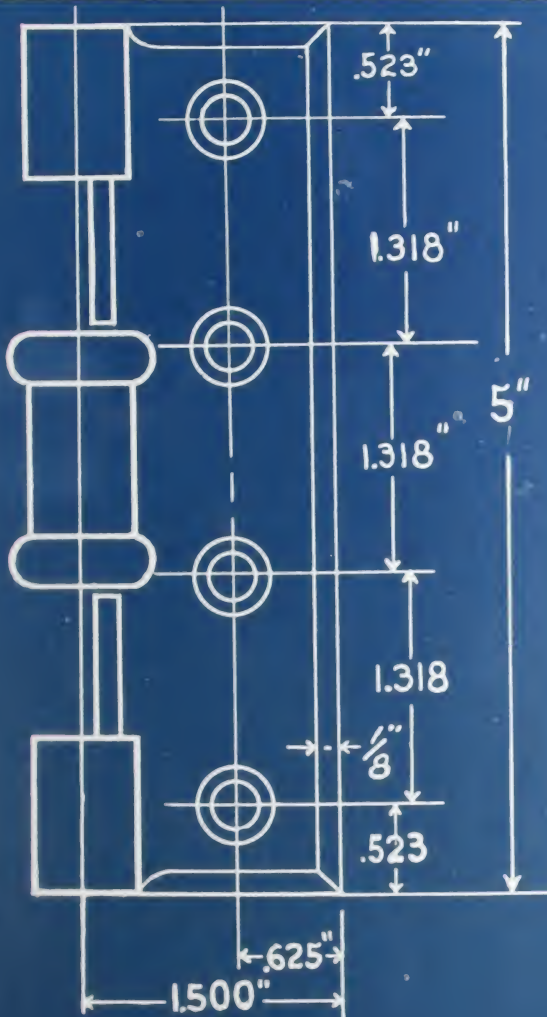
2 $\frac{1}{2}$ 20QHMS WITH GROMMET NUTS FOR SURFACE LEAF

"Standardize on Stanley"

Screw Hole Specifications Stanley Template Butts

Standard A

The location of holes is standard for size:
5 inches.



CLASS NO.	SIZE	GAUGE OF STOCK	MACHINE SCREW SIZE	REMARKS
BB 167 1/2	5	.146	1/2 X 1/4 - 20	HALF MORTISE

"Standardize on Stanley"

STANLEY

Template Butts

The Stanley Works has made a very careful study of Template Butts and is familiar with the practices used by the leading hollow metal door and pressed steel jamb manufacturers.

The Stanley Works Template Drilling is used as a standard by a great many of these manufacturers.

A template butt is one in which the screw holes have been accurately drilled with the aid of a template. These holes will exactly line up with screw holes drilled in hollow metal doors and pressed steel jambs to a similar template.

The drilling of the holes in Stanley Template Butts was scientifically worked out by this organization and has been used for many years. With the assurance that the drilling of our template butts are thoroughly standardized, the manufacturer of hollow metal doors and pressed steel jambs knows he will not be called upon to make alterations on the job.

The standardization of the template drilling insures easy application. The butts are packed with machine screws of the proper size and each butt is stamped with the class number.

The Stanley Works high standard of quality has a special opportunity to prove itself in the Template Butt line. Each individual butt is carefully inspected and is held within close commercial limits which have been established thru long experience and close attention to the needs of the manufacturers. A Stanley Template Butt is guaranteed to fit.

"Standardize on Stanley."